GAM RNA SEQUENCE	VALIDATION METHOD	SIGNAL	BACKGROUND	MISMATCH	GAM RNA Z-SCORE	Z-SCORE	SEQ-ID
ACTCACTGCAACCTCCACCTCC	Mir_sequencing						50
ACTGCACTCCAGCCTGGGCTAC	Mir_sequencing						262
AATCACTTGAACCCAAGAAGTG	Mir_sequencing						259
AATCGCTTGAACCCAGGAAGTG	Mir_sequencing						157
TTCAAGTGTTTAAGTTCTGCTT	Mir_sequencing						38
AGGCAGAGAGGACCAGAGACT	Mir_sequencing						54
CACTGCACTCCAGCCCGAGCAA	Mir_sequencing						283
CCCGGGTGGAGCCTGGGCTGTG	Mir_sequencing						73
GGGCGTGGAGCTGGAATGATGT	Mir_sequencing						214
TGATAGATCCATATTTTGGTAA	Mir_sequencing						235
AGCAAGACCAGGGTTTTGTGTT	Mir_sequencing						52
TCACTGCAACCTCCACCTCCCA	Mir_sequencing						120
ATTGTTGCCCATGTTTTTATTT	Mir_sequencing						172
CTGGACTGAGCTCCTTGAGGCC	Mir_sequencing						326
AGGCCAAGAAGGAAGCAGAGG	Mir_sequencing						166
ATTAGGAGAGTGGGTGCTAAGT	Mir_sequencing						171
AGTTTGTGTAAGAAAAGC	Mir_sequencing						152
AGGAAAAAAATTAATGTGAGTC	Mir_sequencing						268
TCACTGCAACCTCCACCAGCCT	Mir_sequencing						119
GTGACAGTGAATCTAGACAGAC	Mir_sequencing						218
TATTCATTGCCCATGTTTGTGA	Mir_sequencing						21
TGGGTTTTGTTTGTACAGTGTA	Mir_sequencing						370
CTCAGCTCATCCACTAAATCCC	Mir_sequencing						80
TCACTGCAACCTCCACCTTCAG	Mir_sequencing						22
GGGAAATAATTAATGTGAAGTC	Mir_sequencing						10
TGGAGGAGAGTTTGTCAGTATAG	Mir_sequencing						248
GGAATGGTGGTTGTATGGTTG	Mir_sequencing						5
TCACTGCAACCTCCACCTTCCG	Mir_sequencing						121
TTCTGATGGTTAAGTTCTGTCA	Mir_sequencing						39
AGGGCAGGAGGTCCGTCCCTTC	Mir_sequencing						271
TCACTGCAACCTCCACCACGTG	Mir_sequencing						118
TCTAAGAGAAAGGAAGTTCAGA	Mir_sequencing						230
GAAGTTTGAAGCCTGTTGTTCA	Mir_sequencing						306
CTAGACTGAAGCTCCTTGAGGA	Mir_sequencing						296
AATTGCTTGAACCCAGGAAGTGGA	Mir_sequencing						260
CACTGCAACCTCCACCTCCTGG	Chip strong, Sequenced	31393	19.150194	22.611071	173		
TCACTGCAACCTCCACCTCCCG	Chip strong, Sequenced	31810	20.186802	16.772465	352		
TCACTGCAACCTCCACCTCCTG	Chip strong, Sequenced	45662	20.504339	18.911047	353		
ATGGTAGCTGTCCACATCAGGA	Chip strong	8208	25.85717	21.352978	276		
TCAGCTCCTACCCCGGCCCCAG	Chip strong	8279.5	11.228731	17.399603	354		
GTTTCTCTGGGCTTGGCAT	Chip strong	8298	10.689093	5.6611276	18		
TGGTCTGGCCCACATGGTC	Chip strong	8349	13.022524	4.8629713	371		
GACCTTGTGATCCACCCGCCTT	Chip strong	8371	11.550721	15.977306	3662		
ACTGTACTCCAGCCTGGGAGAC	Chip strong	8375	6.4653163	21.671926	1464		
TGCCCAGGCTGGAGTACAGTGG	Chip strong	8395.5	13.998208	16.034225	4337		
TAGCCCTTCTCCACCTCGCCC	Chip strong	8140	13.836067	2.9828069	7225		

CCCCGAGGCTGGAGTGCAGTGG	Chip strong	8152	11.888549	9.8740635	3643
GTGCTGGTGCTCGCTCCTCTGG	Chip strong	8165	11.725875	9.7062302	221
TGGAGTTGGCCGCCCGGACCGA	Chip strong	8187	7.0123053	19.997877	4167
CTCAGGTGATCCACCCCTCTTG	Chip strong	8190	8.7424583	3.9819176	297
TGGGCGACAGAGCAAGACTCCG	Chip strong	8120.5	7.6260972	20.824087	2657
TGCCATCTCCTGGTCAACTGGT	Chip strong	8099	7.1156712	11.071413	1111
TGCAGGTTGCTGGTCTGATCTC	Chip strong	8079	24.743416	17.869699	238
CACAGTGGTCCCCGAAGCCCCT	Chip strong	8036	13.676201	5.1438456	6024
GCTGCCTTGCCCTCTTCCCATA	Chip strong	8045	13.299488	9.9672127	2676
TGCAATCCCCGCCTCAACAGGA	Chip strong	7725	6.5569119	20.462164	2246
CCTCGGCTGGGCCTTGGCCACT	Chip strong	7735	6.1994433	14.162719	3683
GACCTTGTGATCTGCCTGCCTT	Chip strong	7752	27.998966	17.072956	2780
GACCTTGTGATCCGCCCGCCTT	Chip strong	7757.5	11.425945	12.53443	5539
AGTCATTATCTCCTGGACC	Chip strong	7790	10.371323	17.396904	167
CAGCCCTCCTACCCTGCCAGGC	Chip strong	7825	9.6958656	6.1267514	2097
CCCGGGTTGTCCGCGCGTCCGG	Chip strong	7828	9.6190052	4.963129	8125
GCTGCACCCCAGCCTGGGTAAC	Chip strong	7858	6.2366548	20.271864	100
GCTGACCCCTACAGGTTGTGTT	Chip strong	7867	6.2393546	19.308796	2817
AGCACCTCCAGAGCTTGAAGCT	Chip strong	7872	6.2408533	20.331314	3200
CACTTCCCTTCTCTGCTCATGG	Chip strong	7886.5	8.1030474	7.7415953	64
TGCTGGCTATCCTGCGCCTTTC	Chip strong	7903	10.469044	13.746831	130
GGCTGCTGGTTTCTTGTTTTAG	Chip strong	7926	12.94939	11.212504	344
CTTCCTGCCTCTCGCCGCCCGC	Chip strong	7982	10.846725	2.7860351	197
GGAAGCTCTGCCTAGATTTCAG	Chip strong	7993	8.3658886	4.2364674	7707
AGGAGGCCCTGGCGTTT	Chip strong	7670	9.8578186	18.796598	5900
TGTTTGTGTGGGGCCTTGGC	Chip strong	7702	6.3522415	7.8300943	2593
TGAGCACATGCCAGCCCTTCTC	Chip strong	7638	17.835676	6.0798554	711
AAAGTGCTTCCTTTTAGAGGCT	Chip strong	7504	6.1279302	9.924984	7587
CTGCTCTGGTTTCCTCTGTC	Chip strong	7506.5	7.7015729	15.622507	195
CAGGCTGGAGTGCAGTGGCGCT	Chip strong	7523	15.30444	19.097713	3187
GCCTCCAGGTCGGTCTTTCTCT	Chip strong	7529	13.077046	6.7496343	204
CTGTGCTCCCTCTGGCGCCCCG	Chip strong	7554.5	6.8389502	13.825434	5746
CCCTCTTGGCTTCTATCCCACC	Chip strong	7596	7.1978688	6.3785648	315
CACTGCACTCCAGCTGGGTGAC	Chip strong	7458.5	7.5623012	16.072519	4318
CCTGGGCCTCTCAAAGTGCTGG	Chip strong	7478	6.5816064	16.968868	7243
ATGCCACTGCACTTCAGCTTGG	Chip strong	7484.5	6.5842552	19.414671	1141
CAATTCCCAGCTGCCGGGCTGC	Chip strong	7442	8.735631	7.0616617	4520
TCCCCCAGGCTGGAGTGCAGTG	Chip strong	7443	15.029393	17.058321	1212
CAGCTGGTGCTTGCCTGGCTAA	Chip strong	7373	13.676201	7.9258513	66
TCTCCCAGATCCTTTAGCCTCC	Chip strong	7384.5	14.663905	2.166656	232
TTTCTTGGGCCGTGTGCTGGT	Chip strong	7386	8.0159159	10.662634	380
AGGCTGGAGTGCAGTGGTGTGA	Chip strong	7407.5	15.261675	13.995954	6162
CGCCCCGGACGTCTGACCAAAC	Chip strong	7410	6.9984522	2.8285146	3322
AGTGGCTTTGTTCCGTATGGCA	Chip strong	7335	6.074203	16.269117	3712
ATCACTTTGAGTCCAGGAGTTT	Chip strong	7335	6.5335536	19.718058	168
ACCCTCTTGAGGGAAGCACTTT	Chip strong	7337	6.0748458	18.790304	754
CCGCCGCTGATAGCTCTGGGC	Chip strong	7166	6.0192232	10.085858	6324
TGACCTCATGATCCGCCCACCT	Chip strong	7185	29.981552	13.353135	3807
CATCCCTTCCCCCGAGCATGGC	Chip strong	7187	6.026125	8.0810957	1480
TGACCAGGCTGGAGTGCAGTGG	Chip strong	7191	14.972094	17.484272	5379

GTGATCTGCCAGCCTCAGCCTC	Chip strong	7194	15.083432	9.3042612	6092
TCAAGCCATTCTCCTGCC	Chip strong	7209.5	8.1129141	18.200718	2230
GAGCCGCCCTCCACGATGTCCC	Chip strong	7252	8.6663809	14.735928	89
GCCTCCTGAGTAGCTGGGATTG	Chip strong	7261	10.548355	12.900331	7677
GCCTGGGTCCACCGCTCGCGCT	Chip strong	7299	6.5360622	9.6849566	649
CCGCGGGGTCATGGCTGGGCCG	Chip strong	7300.5	16.084072	5.0417223	1915
CCTCACTCAGGTTTGGACCCTG	Chip strong	7301	15.895414	5.3846102	181
GGGTTACTCTGTGTTGGTCAGG	Chip strong	7310	8.6937799	12.815997	13
TGGATTCACACCATTCTCCTGC	Chip strong	7131.5	8.6853085	6.5294394	4554
TCTCGATCTCCTGACCTTGTGA	Chip strong	7138	10.617272	15.065091	7202
AATGGGGTAGTGGGCAGCCTGG	Chip strong	7138	14.468472	13.397085	4479
GTTGGCCTTGAGGTGGTAGAGT	Chip strong	7146.5	17.758888	9.6492624	4832
TACTCTTTTAGCCCCACAGAGA	Chip strong	7108.5	14.535069	18.807434	1632
TCTCTTCCTCCGCGCCGCCGC	Chip strong	7111	6.0010505	12.012436	7928
TTGCATTTGGTTCTGCCTGGTA	Chip strong	7111	6.8737931	11.158542	3496
CACTGCAAGCTCCACCTCCCGG	Chip strong	7048	12.263177	14.099768	8123
CACTGCAAGCTCCGCCTCTGGG	Chip strong	7054.5	14.676391	11.85893	7080
TGCTCTGATTTTTGCCCCAGC	Chip strong	7060.5	10.413313	7.7476549	243
GCTGTTTTCCCATAGCTGGTCA	Chip strong	7061	19.803032	6.222959	338
ACCTGTCTGCCTCCCACCATCAA	Chip strong	6789	17.796188	8.0814438	2784
TCACTGCAAGCTCAGCCTCCCG	Chip strong	6757.5	12.953059	11.945885	4763
CAGTTCCCTCCGCCAGCACTTC	Chip strong	6955	6.4068542	9.6022158	577
GCTAGGCTGCTGGCCACTGAGG	Chip strong	6972.5	13.127683	19.686853	337
TGCTTGCTGTGGTTGGCTGGTA	Chip strong	6974	21.75724	11.332961	34
TCAGCCTCCTCCACCCCAGAGT	Chip strong	6996.5	14.03341	7.0927162	228
TGAACTCCTGACCTCATGATCC	Chip strong	6999.5	26.17539	18.849899	6822
GGGGAACGCGCTGGCCCGCGCC	Chip strong	7005	6.2445078	11.806351	11
GGGCGGATCACCTGAGGTCAGG	Chip strong	7018	13.621652	16.918211	5010
TCACCCAGGCTGGAGTGCAGTG	Chip strong	6851	14.545588	17.889225	1970
CTCTGTGATATGGTTTGTAATA	Chip strong	6862	19.265455	13.692534	193
CATTCTGTGAGCTGCTGGCTTT	Chip strong	6884	11.220102	9.6062307	286
CTCGACTTCCCTGGCTTGCGTGA	Chip strong	6890	6.5380254	11.584653	191
ACGCCTGTAATCCCAGCACTTT	Chip strong	6898	10.893064	18.948416	8025
GGCGGCCCAGGCGCTTGGAGAT	Chip strong	6899.5	8.1672001	10.434432	341
AGGAGAAGCCAAGTTGTGAGCA	Chip strong	6905.5	29.559206	20.101482	3039
GACCTTGTGATCCCCCTGCCTT	Chip strong	6915	8.0644264	17.640575	6819
TGCCGCCCGGCCATCTCGGCTC	Chip strong	6915.5	13.391404	5.9536037	365
CCGGGTTGAGGTTCCCATAGAT	Chip strong	6920	8.8808632	18.126587	5678
TCTCTATGCCATGCTGGCCT	Chip strong	6926	17.665062	2.5852687	127
TGTGCTCTGACTTTCTCCTGGT	Chip strong	6627	12.68187	12.047	724
TATCTATGTGCTCTGACCTCTC	Chip strong	6670	9.7406015	7.9747272	6767
TGCCCAGGGTGGAGTGCAGTGG	Chip strong	6671.5	10.579865	17.748798	4831
TGACCCCTATATCCTGTTTCTT	Chip strong	6691	8.4725876	5.4931335	2529
ACATTCTCTGATTGGTGCCTCC	Chip strong	6695	12.723179	6.4453721	46
TGTCTCCTCGGCTGTCCAGCCA	Chip strong	6736	7.7142167	5.3288264	4102
CTGTGCTCTTTCCACGGCCCCA	Chip strong	6477.5	13.662484	9.3280506	328
AAGGCCGCCCCTTCATGCTCCT	Chip strong	6358.5	9.1175785	8.5895061	256
CACTGCACTCCATCCTGGGAAA	Chip strong	6397.5	6.6049953	18.619169	576
GACCTCGTGATCCGCCCTCCTT	Chip strong	6551	25.696636	10.76053	4357
CAGCAGCTCAGCCTCCTTCCCA	Chip strong	6588	11.002058	9.0820408	311

CAGTTTGTCCCCATGGCCATGT	Chip strong	6591.5	13.401958	5.2375259	312
TCAGTCTTGAACAGCCCCCTGT	Chip strong	6402	12.333841	7.9963231	5636
GGCTCCTGGCAATGTAACTTTA	Chip strong	6419	10.450499	5.440361	8071
TGGAGCTGGGTCTGGGGCA	Chip strong	6426	15.46969	17.843594	35
CCTGGTCGGCGTGGTGACGGCG	Chip strong	6434.5	6.2044091	6.2762375	319
GGCTCAATGCAACTTCTGCCTC	Chip strong	6445	11.169347	10.793466	7972
CTCACTGCAAGCTCAGCCTCCC	Chip strong	6344	18.492039	11.712019	5558
ACATCTAGACTCTTGCCCTCTT	Chip strong	6310	10.886886	15.850095	6415
GCCTGTAATCCCAGCACTTTGT	Chip strong	6291	12.232025	12.874677	2365
GCTCTAGTAGGAATGTCCCTCT	Chip strong	6301	15.744108	2.9028673	7554
TGGTTTATGTGCTTAGGGTCT	Chip strong	6123	11.820129	12.702522	4007
ATGGTCACCTTGGGAGCCTGCT	Chip strong	6216.5	11.238097	13.497247	5908
TCCTACGGTGGCCACAGTCTGG	Chip strong	6256	7.9984035	3.2358623	358
GGCTCACTGCAAACTGTGCCTC	Chip strong	6270	10.347923	7.3339972	8073
CGTTCACTCCCTTGCCCCTCGG	Chip strong	6280.5	7.0008011	9.7373304	295
GGCCTCAGTGATGATGGGTTAAA	Chip strong	6124	7.1093221	5.4322863	6336
ACACTGATGTTGGCCCTGGTCA	Chip strong	6128	7.7381911	9.9548664	701
TGCCCTCTTTCTGTACAGCTCC	Chip strong	6133	11.844581	4.3130703	7415
GCCTTCCCACCACCCGTCC	Chip strong	6139	7.5813851	3.1351645	2305
TGTCTGGCTTTCTTCAGTTAGC	Chip strong	6191	9.9906111	15.989508	373
CCTGGGTTTGGAGCCTGCAGAA	Chip strong	6100	12.018191	10.198569	6893
TGCCTCAAGCCCTCCACTGCAC	Chip strong	6112	10.263255	7.5186887	3035
TACAACCTCTGCCTCCCAAGTT	Chip strong	6090	14.013508	12.263943	590
TGCTGCACCCTCTGCCTCCGGG	Chip strong	6094.5	6.9428978	10.588869	245
ACCCAGGCTGGAGTGCAGTGGC	Chip strong	6072	13.885826	18.928474	1877
GGCTGTGGAGCTGCAGAGTTGG	Chip strong	5971	8.6334085	2.2149129	3959
CACTGCACTCCAGCACTCCAGC	Chip strong	6054.5	6.051445	10.920486	2141
CCGGTGTTCAAAGTCTGGTATG	Chip strong	6055	6.6824059	12.060349	6593
CTGGGTTGGGGTTACATGACTG	Chip strong	6057.5	6.2405562	7.4004421	1420
GCAGCATCCCGGCCTCCACTGT	Chip strong	5995	7.2606683	11.881517	92
ACCATTGCCCCCTAGTGTCTGT	Chip strong	6005.5	18.236116	9.1782494	8077
TAGCCCAGGCTGGAGTGCAGGG	Chip strong	6013	9.3222113	19.078527	3381
CTAGCCCCTACTCCAAGTTGA	Chip strong	6032.5	13.43356	13.731526	4197
AGTGCAATGGCGTGATCTTGGC	Chip strong	5951	8.6127348	17.549313	6917
TGTGGTAGTCACGGCCCGCCAC	Chip strong	5909.5	23.027369	15.816967	252
CCCAGGCTGGAGTGCAGTGGCG	Chip strong	5921	13.471205	18.407236	424
TACGCCTGTAATCCCAGCACTT	Chip strong	5888.5	12.35752	15.497684	4497
CTTGCCTGCCCTGTGTCATAAA	Chip strong	5903.5	13.361271	3.0393276	198
CACCCAGGTTGGAGTGCAGTGG	Chip strong	5832	13.915822	17.475407	6704
CCCCTCGCCTGCAGAGCACAGC	Chip strong	5731	11.509651	11.332071	2761
TTCACTGCTCTAGCCCTAATTT	Chip strong	5739	15.599205	7.8376389	376
TCCATTGGCCTTTTATCCTAGA	Chip strong	5760	15.329782	8.1126537	357
CCCAGGCTTTTCTCTTGCCCCA	Chip strong	5771	12.212635	10.303027	6847
TGCTATGTTGCCCAGGGTGGCC	Chip strong	5818	7.5935292	5.3837776	1649
TGCCTAGCCAAGTCCAGTATTT	Chip strong	5823	17.976177	16.478537	366
TGCCTCCAACAGCCCATCCTAG	Chip strong	5709	13.713832	8.2213135	6138
CGGCATCCCCACTTCCTCCTGC	Chip strong	5467	9.4591436	4.2301731	519
TTCTGGCTTCTCCCAGGCGGCC	Chip strong	5582	8.2352791	10.879703	377
ATGGCCCTCTTATCACAGCTCC	Chip strong	5586.5	21.480997	6.3762493	61
GGGCTCTTCTGGCATGCTGCTC	Chip strong	5611	13.084294	4.0039878	4365

AACCCAGGCTGGAGTGCAGTGG	Chip strong	5616	13.703417	16.740423	7687
TCGTGATCTGTCCACCTCGGCC	Chip strong	5621.5	23.653496	15.646881	5412
CACCCTCCAGCTCCCGGGGGCT	Chip strong	5651.5	10.5429	4.3305707	5684
CAGAGCTGGCTTCATGGGTGTGC	Chip strong	5653	6.236114	16.840534	5052
GTCTTGTCCCAGCTCTGCCACT	Chip strong	5667	6.9972954	10.289277	4644
ACTGCACTCCATCCAGCCTGGC	Chip strong	5668	7.6480083	10.938603	51
ATGGCCGCCTGTCCTTCCCGCC	Chip strong	5678.5	6.8652005	8.8366051	481
TGCCTGCCCCAGCTGAGATATC	Chip strong	5686	10.380668	15.221783	241
GACCTTGTGATCCACCTGCCTT	Chip strong	5568	12.58271	17.013798	7762
GCCATCATATCCCCTGTGACCT	Chip strong	5493	17.421993	9.6620798	4242
GCTCGCTGGGGTCTGCAGGCGG	Chip strong	5502	7.7859778	10.874097	208
GCCATTGCACTCCAGCCTAGGC	Chip strong	5526	14.891936	17.393818	7055
TCTTGCCACTTCATCCCCTTTC	Chip strong	5428	8.6937799	2.063446	1381
CTCCTTGCCATTTCTTTTC	Chip strong	5430.5	13.120463	6.2777233	2834
TTGCCTTCCTGCCCAGCTTCTG	Chip strong	5405	6.7744174	12.840696	3179
TGCGACCCTAGCCCCCTCACTT	Chip strong	5417	11.129067	4.3243365	2317
AGTGATCCACCCGCCTCAACCT	Chip strong	5364	8.4659891	7.8198662	3402
GCAGCTCCTGGAGGTGAGAGGCG	Chip strong	5368	7.8018293	15.956004	201
CTCATTGTAGCCTCCAGTTCTTG	Chip strong	5375	10.634505	9.6296253	325
CCTCAAGTGCCTCCTGCTGCT	Chip strong	5375	12.938377	9.593914	3997
CCAGGAGGTTGAGGCTGCAGTG	Chip strong	5379	11.585869	13.504684	1956
GTGGCGTGATCTCGGCTCACTG	Chip strong	5379.5	9.6190071	14.266473	2609
CTCCCCAGCCCTGGTATTCTGA	Chip strong	5384.5	8.2165499	5.6187172	5022
ATGGCCCTAATGAGTTGGTGTT	Chip strong	5385.5	19.2614	5.6697388	7951
AGGCTGGTTAGATTTGTGGTCT	Chip strong	5392	20.112637	16.324888	270
TCTGCCTAGAAACAGTGTTTGC	Chip strong	5275	11.601666	3.0926366	3939
ACTGCACTCCAACCTGGGTGAC	Chip strong	5289.5	9.2819481	17.745958	5884
CACCAGGCTGGAGTGCAGTGGC	Chip strong	5291	13.367915	17.112989	3975
TGGTGGCTCACACCTGTAATCC	Chip strong	5307	8.9909515	17.038876	5793
GCTGCACTTCAGCCTGGGTGTC	Chip strong	5310	7.5533419	15.940791	3
GGCCTCTTATCTGGCTCCTGCA	Chip strong	5318	6.4274201	6.5868769	1940
GCCCTTTGTGTCTGGCTGGGGT	Chip strong	5320	11.978069	10.261797	96
GGTCAGGAGCCCTTGGCCCCCT	Chip strong	5270	7.1600103	6.9067311	7119
TTCTCTGTGCTGGGTCCTGAGG	Chip strong	5272.5	8.1261625	9.2259359	138
TAGGACCCTGGTGGCCCCC	Chip strong	5109	8.5892859	8.0437737	6795
CAGCTCGGGCCTCCCTCTCCCG	Chip strong	5136	8.3545942	10.162696	2628
AGATTTCCCTTCCTGCTTGCCT	Chip strong	5251	6.0291886	13.065763	265
TTTAGATTGTGACCTCCCCCCA	Chip strong	5251.5	10.399335	6.4590821	3408
TGTACTTCACCTGGTCCACTAG	Chip strong	5195	6.9524846	10.108624	1330
GACCTCATGATCCACCTGCCTT	Chip strong	5103	8.7762318	12.394208	6450
CACTGCAATCTCCATCTCCTGG	Chip strong	5091	10.483025	11.471234	2278
GACCTCAGGTGATCTGC	Chip strong	5069	10.007993	16.466791	5584
TGCGTTCCAGTTGCTGCCAGGC	Chip strong	5079	11.194171	5.7294831	242
CTGGCTAAGATCCAAGAAAGGC	Chip strong	5036	14.178236	6.6532001	85
TCATTGCAACCTCCTCCTGGGT	Chip strong	5039.5	18.95397	9.7537737	124
CACCATGCCCGGCTAATTTTGG	Chip strong	5040	7.316802	9.882267	7207
ACAGCCTCCATCTCCTGGGCT	Chip strong	5043	8.2979441	10.987616	1959
CTGCGTTCTGCCTGGCGGCCTA	Chip strong	5047	6.173347	11.160098	3098
TGCCTGTTGCCCACCTGATAAA	Chip strong	5059	6.6816697	2.6550572	2254
TTGACATGCCTCCTACATGATC	Chip strong	5065	12.953059	10.809283	40

GGTGATCCACCAGCCTCGGCCT	Chip strong	5029	8.9257526	7.78508	2526
TGCTCGCCCCACATGCCCTCAT	Chip strong	5021	8.3489428	2.7518404	399
CCTGCTCTCTGTTCTTAAGCTT	Chip strong	5021	9.0648565	7.4354005	291
TGCACCACTGCACCCCAGTCTG	Chip strong	5009	7.3463378	16.848854	236
CATTGGCCTTTTATCCTAGAGG	Chip strong	4983.5	15.452302	15.902376	7135
TGCAGCCTGGCTTCGCGCCTCC	Chip strong	4949	8.0856781	6.7986131	6000
TGCTGCCCTAAGACCACCTT	Chip strong	4950	11.124713	13.249466	246
ACCCAGGCTGGAGTGCAGTGGG	Chip strong	4950	12.992976	17.386417	5465
AACCAAGCCAGCCAGCCTCTC	Chip strong	4971	17.613102	15.532504	2994
GGGAGTTGTGGTTGGCTTCTGG	Chip strong	4978	8.3206406	9.2158394	346
GGCCGTGGTCGCTGACTCTCGT	Chip strong	4980	6.9448657	12.094063	8
CTGCCCTGGGGGGCCTCCTTGC	Chip strong	4817	12.989676	3.0056505	6449
TTGTTCCTATCTGCCTCCTGC	Chip strong	4838.5	9.8048887	4.8166785	4212
TAGGTATGGCTTGTGGCACAGC	Chip strong	4840	23.281979	15.36544	20
CTGGGAGGCGGAGGTTGCAGTG	Chip strong	4850	10.57113	16.432323	2605
TTCCCACTGTGGCAGAGCCTCG	Chip strong	4853	8.5227718	8.7430191	1620
CGTCCCGGGTTCACGCCATTCT	Chip strong	4935	8.0834999	8.5963545	4319
GGAGGTGGAGGTTGCAGTGAGC	Chip strong	4936	10.584228	13.28014	5268
GCGCCGCCATCCGCATCCTCGT	Chip strong	4801	16.34218	9.281786	206
TTTGCTGCCTCTCCCAGCTCCC	Chip strong	4807	7.1600103	7.8129125	817
GTCTCCTCCCTTTCATTCACCT	Chip strong	4807	8.0566654	3.426122	6120
CTGGTGTTGGGTCTTGCTTTTA	Chip strong	4756	6.5764294	8.8639517	327
ATGGGCCTCCTATTATCCCCAT	Chip strong	4745.5	13.363207	5.1394033	170
CGCCCAGGCTGGAGTGCCAGTG	Chip strong	4722	9.6376123	13.758563	293
GCTCCGCCACGCCCACTCCTAC	Chip strong	4705	6.8716969	9.635397	1911
ACTGAACTCCAGCCTGGGTGGC	Chip strong	4658	6.5409584	16.232538	2571
AAAAGCAATTGCGGGTTTTGCC	Chip strong	4663	15.116411	4.7130346	4774
TGGCCTCGGCATCCAGCAAGAG	Chip strong	4673	9.39785	4.3334913	1345
TGTAATCCCAGCTACTCGGGAG	Chip strong	4677	11.408354	16.218851	1981
CAGGCTGGAGTGCAGTGGCGCC	Chip strong	4637	13.11445	16.865786	3960
CCAGGAGGCGGAGGTTGCAGTG	Chip strong	4649	12.224211	16.137344	5298
GACCTTGTGATCCACCCGCTTT	Chip strong	4584	8.4290171	13.331941	3651
CGACCTTGTGATCCTCCCGCCT	Chip strong	4594	7.4134154	4.4487605	77
CGCACCCCACTGTCCCTCAACC	Chip strong	4601.5	6.5281987	4.8853817	1477
CCAGGAGTTGGAGGCTGCAGTG	Chip strong	4602	7.9332623	12.632589	2266
CATCCCCTGATGCTCTTGAGTA	Chip strong	4569	15.521686	7.8696661	6712
CTGGCTGGAGTGCAGGTGAGTG	Chip strong	4570	6.2398477	8.3825598	5350
TGACTACAACCTCCACCTCCCG	Chip strong	4496	8.9163761	9.9170055	7983
AGCCTGTCCCTTCTCCTG	Chip strong	4545	14.269382	3.7745585	4225
GACCTCGTGATCCGCCCGCTTT	Chip strong	4513	8.2720776	14.007803	2307
CTGAGGCTGGAGTGCAGTGGTG	Chip strong	4514	12.474048	16.694977	1268
TGATATGGTTTGGCTGTGTT	Chip strong	4515	12.488225	16.236593	3673
CTCAGTGCAACCTCCGCCTACT	Chip strong	4516	8.8905106	13.512998	189
GGCTCTGGCTTTGGAGGAGCAG	Chip strong	4483.5	6.8781896	14.473881	106
CTACTGGCCATCTGATCTACAA	Chip strong	4485	7.3851671	14.238548	6220
GGGCTTTTGGAATGGTCTGT	Chip strong	4463	9.6709318	2.0551727	215
TCTGTGCCTGCTTCCCCACCCA	Chip strong	4441	10.565875	6.8799772	3578
CTCACAGTCTGCCTTTCCCTTG	Chip strong	4450.5	6.7386289	12.351869	5907
AGTCGCTGGACCATCAGAGCCT	Chip strong	4419	12.240126	13.100382	56
CACTGCAAGCTCTGCCACCTGG	Chip strong	4423	9.3773403	10.346853	6245

GACCTCGTGATCTGCCAGCCTT	Chip strong	4406.5	24.777288	14.546185	7856
AGATGGGGTTTCATCATGTTGG	Chip strong	4401.5	10.491898	11.499362	7635
ATCACCCAGGCTGGAGTGCAGT	Chip strong	4395.5	12.324327	14.314183	1236
GGTGGTGGAGCGGGCCCAGGCC	Chip strong	4320.5	7.4591732	12.328825	112
GCCCAGATCTCCTGACCCTCAG	Chip strong	4383	6.4070868	5.3791971	692
AAGTGATTCAGCCCTCA	Chip strong	4389	9.3773403	14.014197	3565
TCACTGAAACCTCCACCTCTCG	Chip strong	4339.5	9.3257465	9.4827623	1720
AGGCGCCTGCGGGATCCTTGCC	Chip strong	4344	8.3828068	9.3085003	2425
TGCGCCTGGGGCCCTGGCTGTC	Chip strong	4313	6.5380034	7.0607853	574
CACTAGGCTGGAGTGCAGTGGC	Chip strong	4301	12.202009	16.549067	3466
CGGCCCCTCCTCTCGCGCC	Chip strong	4246	7.6359258	11.74948	3562
GCGGGGCCCGGACCCAGCCTCT	Chip strong	4254	6.3321967	3.5057929	4136
TCACCAGGCTGGAGTGCAGTGG	Chip strong	4254.5	12.386087	16.169609	2239
CCCAGGAGTTGGAGGCTGCAGT	Chip strong	4273.5	6.2922449	14.155445	1496
AAGGTGGAGGTTGCAGTGAGCT	Chip strong	4275.5	9.1417122	11.853789	5181
CACCCAGGCTGGAGTGCAGTGG	Chip strong	4215	18.95397	16.455006	2323
CTCTTCCTAGTGTGCAGCGTGG	Chip strong	4232	15.394135	7.1230512	5501
TCCAGCTGTCCACGTCTTCCTG	Chip strong	4070	6.5770264	7.9605851	23
GGAGCCGCCGCCCTTCATT	Chip strong	4182	6.2263575	9.809968	2158
CTCACTGCAAGCTCCACCTCTT	Chip strong	4183.5	15.744108	13.408605	5871
CCATCCCTTGGAAGCTGGTTTTA	Chip strong	4197	11.864914	11.215641	4532
TGTTTTGGTGGTCTATAGGAAA	Chip strong	4197.5	17.069103	4.0587807	8111
ATGGTACTCCAGCCTGGGTGAC	Chip strong	4173	7.3957338	16.409479	275
TATTCCAGCCGCTTGAGCTCGC	Chip strong	4174	10.310376	2.8741286	2232
TTGCCGCCGTCTGCTCGCCCCG	Chip strong	4152.5	6.8889446	2.1733229	3795
GTTGCCTAGGCTGGTCTTGAAC	Chip strong	4155	10.291553	9.7640581	3199
GTGGCAGACCTTCCCTTCTCCT	Chip strong	4139	6.9686718	8.4107714	2348
ATTCTGTGCTAACTGCAGGCCA	Chip strong	4140	19.305922	11.530575	153
GACCTCGTGATCCGCCTGCTTT	Chip strong	4080.5	7.6009617	13.947659	199
TGGTGCAGCGTGTGGTGGCTCT	Chip strong	4082.5	9.6208868	12.887189	251
TGGTCGGGCTGCATCTTCCGGC	Chip strong	4093	8.0100813	2.1106353	132
CACTGCAGCCTCCATCTCTGGG	Chip strong	4050	6.9180322	10.574921	174
GCGGGGTTCCGTGCCCCAGAGT	Chip strong	4053	7.8508492	13.874727	6476
ATGGTGCTGGTGGGAGTGTATT	Chip strong	4053	18.971554	14.625937	277
TGGCATGGAGTGGATGGCCCCA	Chip strong	4020	10.765949	7.8047137	1023
GTTGCCTAGGCTGGAGTGCAGT	Chip strong	3942	8.7036104	9.8695612	4753
GGAGTGCAGTGGCGTGATCTCG	Chip strong	3942.5	10.745003	10.263955	5148
CTTCTGGCTGGTCAAGGACT	Chip strong	4005	8.6937799	9.6446276	2170
CAGGCTGGAGTGCAGTGGGGCG	Chip strong	4013	11.398844	15.757032	4495
TGGCCCACCCGTTGA	Chip strong	3982	17.579905	15.494586	2874
CATCTTTGCCCATCCACTTCCA	Chip strong	3944	14.688863	11.31537	1533
CCTGCCAGAGCAGCTTGTCCTC	Chip strong	3950	8.0972605	6.3928571	1324
GGAGGCGGAGGTTGCAGTGAGC	Chip strong	3959.5	14.891936	13.769753	913
TGCCTGCCGTTAAATGTTACTT	Chip strong	3936	12.749383	11.509386	128
TGGGCTTGGTTTCTAGGTAGGT	Chip strong	3911	7.6177769	7.7206488	6209
AAGGGAATGTTGTGGCTGGTTT	Chip strong	3896	10.519875	13.251223	3929
GTAGTCCCAGCTACCCCGGAGG	Chip strong	3868.5	12.13766	12.272501	5606
AAGACACCAGTGGCAGCCCC	Chip strong	3888.5	10.940197	2.9559026	4672
CATGTTGGTGTGCTGCACCCGT	Chip strong	3866	8.1607409	11.896873	4506
GTGCTCCCTCCTTCCTCAAGGA	Chip strong	3789	7.298171	9.6469736	4548

GACCTTGTGATCCGCCCACTTT	Chip strong	3834	7.5950313	9.0545225	88
GGGCAGATCACCTGAGGTCAGG	Chip strong	3840	11.253606	14.604554	6553
TAGTGCCCTCCCCTTTGGGATA	Chip strong	3843	11.037247	12.832376	4463
CTGTGCTGGGTCCTTCTTTTGA	Chip strong	3805	10.533696	10.867439	941
CACTCAGCTGAGCCCTCAGCCC	Chip strong	3808	6.236114	7.0009232	5277
ATTGCACTCCATCCTGGGCAAT	Chip strong	3819	9.5150204	15.853324	6351
CAACTCACTGCGGCCTCAACCT	Chip strong	3783	9.680912	5.8278494	279
GCCGGGTTCAAGCCATTCTCCT	Chip strong	3787	7.9569592	12.92104	1813
GTTGAGGTGATGCCAGCCCTGC	Chip strong	3770.5	12.133699	8.0446234	855
TCCTTCAGCCTCCCAGCTCAAA	Chip strong	3775	7.1473608	4.387816	2067
CTTTATGAAAACCTGAATTATG	Chip strong	3768	23.111034	14.960108	2537
TGGGGGAGCTCAGTCCAGCCCA	Chip strong	3738	7.3541789	13.35856	473
CTGGAGGAGCTGCCATG	Chip strong	3669	12.842446	14.933422	84
ATCTGAGCTCCGCCTCCTGTCA	Chip strong	3672	6.5016451	12.313261	2840
GAGGCGGAGGTTGCAGTGAGCT	Chip strong	3764	9.5502567	13.02844	7730
ACCTTTCAGTGCCCTTTCTGTC	Chip strong	3716	8.0798817	7.0213175	1227
GGAGTTTGCCTATTGCTTTTGG	Chip strong	3720	6.173347	6.482801	2172
GCCATCCCAAGCATTTTGG	Chip strong	3676	17.232298	13.983404	2451
CATGGTGAAACCCCGTCTC	Chip strong	3678	7.6599259	10.599221	7513
CTTGTTTATCTCTGTAGCCCTG	Chip strong	3684	6.669796	8.3862486	1079
CTCCCCCCACAGTGTTCTTGCC	Chip strong	3652	6.2223167	4.4124942	5838
TAGCTCCTCCCAGATCTCATCT	Chip strong	3659	10.385338	3.9473054	116
TTAAAGCCTCCCTCATAAGGA	Chip strong	3650	8.3206406	14.328845	7912
TCGCACCATTGCACTCCAGCCA	Chip strong	3636	8.0997972	12.774747	5846
TCACCGAGGCTGGAGTGCAGTG	Chip strong	3619	11.230327	15.315854	3181
GGACACGTGGCTGAAGGCGGCC	Chip strong	3613	11.24597	5.512249	2730
AAGCCAATGCTAGCCCACATGC	Chip strong	3477	8.0798817	10.92757	3767
CTTCCCACCAAAGCCCTTGTTG	Chip strong	3477.5	6.069356	7.7381773	5403
TTGGGGGAGGCCTGCTGCCCAT	Chip strong	3549	9.3567915	8.3044834	41
CTGAGCAGATGACCAGCCCCAG	Chip strong	3552	7.8454118	5.6452436	2049
CCTGGAGGCGGAGGTTGCAGTG	Chip strong	3559.5	13.365788	12.004289	1221
GCACCACTACACTCCAGCCTGG	Chip strong	3563	6.3702331	11.491977	3344
CACCGAGGCTGGAGTGCAGTGG	Chip strong	3565	11.145717	13.107421	5363
CCCATTTCTTGAGTTCAGCTCT	Chip strong	3582	13.552105	2.9659367	7453
CCGGGCTGGAGTGCAATGGCTC	Chip strong	3585.5	7.393702	15.612262	1102
GCTGGCAAGGTGCTGGAGGGCC	Chip strong	3498.5	14.638888	3.7599447	4202
GTTGGTCTTCATTAAATGCTTT	Chip strong	3499.5	17.153486	5.8892236	224
GCTCCCACCGCCGCTATGGGTA	Chip strong	3502	8.3206406	3.5113876	7090
GAGGGGAGCCCCCATCCTCCAG	Chip strong	3509	6.0553408	8.2040138	7454
GGTGGCTATGGCTGTGCTCGC	Chip strong	3426.5	15.917648	2.9563422	217
GCCAGCCAGAAACGTCACACTG	Chip strong	3409	16.32616	4.566371	1814
AAGTGCTGGGATTACAGGCGTG	Chip strong	3421	6.6648126	13.608858	3169
CGCTGCTCCGCCTTGTCCATAT	Chip strong	3421.5	6.0202217	7.0959082	832
GATGTCGTGATCCACCCGCCTT	Chip strong	3425	7.313684	10.200798	90
AGTGGCGTGATCTCGGCTCGGT	Chip strong	3395	8.8775339	14.742507	57
GGGAGGTTGAGGCTGCAGTGAG	Chip strong	3383	10.8508	12.95626	3612
GTGCTTAAAGAATGGCTGTCCG	Chip strong	3362	26.398634	13.195816	17
CACCCAGGCTGGAATGCAGTGG	Chip strong	3367	10.824119	13.172818	6596
TCACTGCAAGCTCCACCCTCCG	Chip strong	3370	12.960393	9.7885542	122
AAGTGCTGGGATTACAGGTGTG	Chip strong	3352.5	6.344357	13.838893	1790

TGGATTCCACGCCTGCTCCTGT	Chip strong	3340	6.8911624	11.417203	7562
TGGTGGAATTGTAAAATAGTGT	Chip strong	3325	14.98994	2.7421064	5448
GCGGCAGGAGTAAAGGAGGAAG	Chip strong	3316.5	10.005136	13.926331	5414
TCAAATCCCAGCTCTACCACTTC	Chip strong	3303	8.91047	9.0682478	4439
CGGCACTGTAGTCTGGCTGGGA	Chip strong	3297	6.7212648	9.1534166	78
GGCTCCCCAGGTCCAGGAGCTG	Chip strong	3288.5	7.409893	3.4725714	6253
TCAGCCATTCCTTACCTTTC	Chip strong	3289	10.019641	3.658488	1702
TGGCTCATTTCTAAACCCAGCT	Chip strong	3232	14.053276	3.3175437	5751
GCCCGCGCCAGCCTCTCCATCT	Chip strong	3281	7.5448685	10.447037	389
ATGGGTTCAAGTGATTCTCCTG	Chip strong	3260	9.7943249	13.811167	2854
GTAGACCATTTATCTGGGGAGT	Chip strong	3261	18.415466	9.8317289	5316
TTGCCAGGCTGGAGTGCAGTGG	Chip strong	3263.5	10.6484	11.737497	7303
TCTGGCTCTGGAGTCCACCTGC	Chip strong	3242.5	6.90412	4.9786406	5090
ACCACTGCCTCCAAGGTTCAG	Chip strong	3247.5	10.014809	6.09551	790
GTGTAAGAACCTTCTAGAGCCC	Chip strong	3204	7.0456204	2.6366203	3291
GGGCAGAGCCAGCCAGTCCC	Chip strong	3180	11.937795	10.093319	4363
CTGGCTAGATGTGTGGCCATGA	Chip strong	3221	21.032122	14.058989	86
CTGTGGTGAGGCCCTAGAATCTG	Chip strong	3222	11.085442	6.6749387	5263
CTAAACTGCTCTGGGGTTCTAA	Chip strong	3193	9.0118723	7.9338799	6296
TTAAGCATTTAGTTGTATTGCC	Chip strong	3197	9.1805019	4.3070669	3314
GCGCCACTGCACTCCCACCTGG	Chip strong	3169	6.6892595	13.204038	4478
CTGAGGAGAGGTGGCCTGTGTT	Chip strong	3133	7.5326686	9.6798878	8108
CAAATTCCATTCATGCTCCCTT	Chip strong	3158.5	7.6177769	5.7730742	2448
CCCGGGAGGCGGAGGTTGCAGT	Chip strong	3131.5	7.7846441	13.396295	7575
CCCTGATAGCCCCTATCATCAG	Chip strong	3127	14.184772	3.5698271	3115
GCTGCAGCTCGCCTTCCGGCCT	Chip strong	3057	8.4446125	4.0500226	4063
TCTTGGTCTGTGGCAGGTGCCG	Chip strong	3073	9.474412	8.0332594	2736
AACCTTGTGATCCACCCACCTT	Chip strong	3034	7.7903786	12.639959	43
AGAATCCCAGGCCCCACTG	Chip strong	3122	8.3376312	13.851473	2085
AAGGCGGAGGTTGCAGTGAGCT	Chip strong	3045.5	7.8869753	9.9235849	1304
GGAGGCTGAGGCAGGCGGATCA	Chip strong	3046	17.235645	8.6580906	2077
AGCTGGCTTACTTGAGATGCAT	Chip strong	3049	8.8567095	7.4132333	147
ACCCATCCAGTGTCCCTGCTAG	Chip strong	3030	8.7047195	5.2593546	4667
GCACCACCACCATCGGCACCTC	Chip strong	3012	6.4477148	2.4866204	1074
GGGGCTTCTAGGGTGCCAGATC	Chip strong	3012.5	13.356146	7.901947	109
CCCAGGCTGGAGTGTAATGGTG	Chip strong	3009	7.0731392	13.781642	871
TATTGGCCGGGCGCGGTGGCTC	Chip strong	3005	7.5996141	7.7475381	3374
GGCCCAGGTTGGAGTGCAGTGA	Chip strong	2994	8.0930119	10.374014	340
GGCCCAGTGCAAGCTCTTTCTG	Chip strong	2960	7.6298795	6.4523926	211
CCCGGGAGGTGGAGGTTGCAGT	Chip strong	2962	7.343236	13.058587	3903
TCTGAGCCAGGGTCTCCTCCCT	Chip strong	2987	6.3731112	9.5772123	2128
GCAGCCATGTTCCCGTCTCAGCT	Chip strong	2992	8.4334011	13.142536	5488
AGCCCAGGAGTTTGAGGCTGTG	Chip strong	2967	32.270233	14.86321	6244
ATGCCACTTCATTCCAGCCTCG	Chip strong	2970	9.9712133	3.6728451	7633
CCGGGAGGTGGAGGTTGCAGTG	Chip strong	2974	9.8512392	11.290913	4895
CTGTCCCCACCCAAATCTCATC	Chip strong	2917	10.575051	6.3207545	2019
GAATCCCTTGCATTATCCCTTT	Chip strong	2882	12.693152	4.2042389	1301
GCCCTTGAAGCTCTGACCCGCT	Chip strong	2947	7.6962008	2.815666	331
GCTGGCTCCACCTGCTGCCAGG	Chip strong	2916	6.3332305	13.052609	4
ATCATTATCCTCCTATTTGCCT	Chip strong	2916	8.0566654	5.4937286	7269

GCACACGGCAGCCTCCTCCTGA	Chip strong	2910	8.0682802	10.311243	892
CCACTGAGGTAGCTGGTGACTG	Chip strong	2861	16.719574	7.8953633	288
GCCTCCAGGGATGATTCCTTCC	Chip strong	2862	10.98442	5.283977	982
CCTCCGGTCATTGTGCGGGCCT	Chip strong	2835	12.644177	5.132216	75
GGAGGCGGAGGCTGCAGTGAGC	Chip strong	2820.5	15.941129	10.098513	6508
CCCAGGAGGTTGAGGCTGCAGT	Chip strong	2825	8.4417934	12.283764	6673
ATGAGATGAGGAATGGCCCTCC	Chip strong	2753	10.024472	4.1300974	2639
CAGGCTGGAGTGCAATGACGCC	Chip strong	2761	6.4190331	12.467172	2178
TCACAGCTCACTGTAGCCTCGA	Chip strong	2815	8.137701	3.0544136	6988
GGCCTCTCTTGGGACAGCTGTC	Chip strong	2816.5	11.840509	11.64073	3103
AGGATCTTGCTATGTTGGCCAG	Chip strong	2784	10.949057	7.9714575	148
TGTGACACTGGCCATCTGGGTT	Chip strong	2784.5	11.518049	11.150477	2243
CCCAGGAGGCGGAGGTTGCAGT	Chip strong	2787.5	17.208832	12.188313	4707
TCTCCCAGGCAGGAGTGCAGTG	Chip strong	2795	6.2941146	8.1798553	1969
CGCGAGGTGGAGGTTGCAGTGA	Chip strong	2801	7.9867125	4.0311246	3164
TCACCCAGGCTGGAGTGTAGTG	Chip strong	2745	12.479655	15.868072	4227
TTCCACATGTTAGCTGGTTAAA	Chip strong	2748	17.300783	11.944987	7063
GAGGCCAAGGTGGGCAGATCAC	Chip strong	2720.5	8.2338047	10.671504	5353
GGTTTTCACCTCCAGAATGTGC	Chip strong	2724	8.9372482	2.5630777	7341
CCTGTGGCGGGGGCCAGTGCCT	Chip strong	2732.5	7.5204544	6.9828696	1750
TGGTGCTAGTTAAATCTTCAGG	Chip strong	2715	17.999035	10.341267	372
TGCCTAGGCTGGAGTGCAGTGA	Chip strong	2695	6.3287864	5.4875331	3757
TCTCTCAGGCTGGAGTGCAGTG	Chip strong	2711	9.6044931	12.843214	5612
GGCTCATATCCCGGCCATCATT	Chip strong	2692.5	14.02678	7.6887875	3130
GTGGTTCACTTGAGGTCAGGAG	Chip strong	2687	7.6964669	6.9500546	5420
TGGCACAGCCTCCATGTCGTCC	Chip strong	2677	6.0342832	3.5939596	3630
GCCTCCCCAAGCAGCAGGGATT	Chip strong	2657	6.1669488	6.5350518	6028
GAGGCAGAGGTTGCAGTGAGCT	Chip strong	2657	9.0964527	12.056673	4442
CCAAAGTGCTGGGATTACAGGT	Chip strong	2646	16.076189	9.7789927	4944
ATTGCACTCCAGCCCTGCTGAC	Chip strong	2635	17.208832	12.066468	4298
TGCAGGCTCTTGGTGACGTGGG	Chip strong	2639.5	6.3321967	6.947082	2990
GCACTGCTGCCTCCTGG	Chip strong	2627	6.3458524	7.414557	308
ATGCATTCCTCCCCTTTCCTC	Chip strong	2616	14.484365	5.1510644	4516
GAGGCGGAGGTTGCAGTGAGCC	Chip strong	2617	13.34126	11.36616	950
GACCTCGTGATCTGCCGGCCTT	Chip strong	2588	16.253777	11.608788	713
CCAGGCTGGAGTGCAATGGCAT	Chip strong	2590.5	6.1812749	11.923506	3026
TGGCGATGGTCATTTTTC	Chip strong	2609	8.1261625	3.1643765	4127
AAAGCCTCCCAGGTTATGAGTA	Chip strong	2572	7.0200324	7.2430992	7747
GTATGTGCTGAGCTTTCCCCGC	Chip strong	2572.5	6.3526735	4.20855	2185
GCAGCTGACATCTGGCTGGGCC	Chip strong	2573	8.120388	3.4149001	7981
GGACAGCCGAGTGGCCTTCTCC	Chip strong	2573	10.913574	6.836751	5759
TCCTCAGAATCACCTGGCAGCT	Chip strong	2574	6.6020346	3.5169666	4799
TTATAATGTATAGCTGTGCCTG	Chip strong	2566.5	15.056374	8.2182913	374
GCCACTGAGCCCGGCCATTGTT	Chip strong	2514	7.7381911	2.2476037	3912
GAGGAGCCCCTCTGCC	Chip strong	2540	6.3185239	6.9227304	5477
CAACATGGTAAAACCCCGTCTC	Chip strong	2540	16.422916	2.931881	5472
TCCTTGTGCTGAGGGTGTTGCT	Chip strong	2546	8.0740824	3.1969757	1183
TCAGGAGGCGGAGGTTGCAGTG	Chip strong	2550	14.153902	12.094613	7702
TGCTTCTAGGGAGGCCGCAGGA	Chip strong	2554	12.58359	11.930317	247
TGTTGCCCAGGTTCTCTCCTGC	Chip strong	2527	6.3116803	4.8975463	4616

TCATCAGGGATATTGGCCTGAA	Chip strong	2532.5	12.247967	10.842815	6630
GAGAGGTGGAGGTTGCAGTGAG	Chip strong	2534.5	6.4362307	12.629781	5970
ACTCTGCCTGCGGTGGGCGGGA	Chip strong	2519.5	6.1112909	2.732919	7042
GGCCGCCCTTTCCACGGTTTCT	Chip strong	2520	9.4387512	10.455907	3328
TAGAACTATGGCTATGTGCCA	Chip strong	2523.5	18.843672	7.4688845	227
ATCCATCCTGCCATCTGAGTAG	Chip strong	2515	9.8589849	10.131585	6440
CTGTCCCTGAGCAACTCCTGTT	Chip strong	2516	6.2773986	8.6073799	6046
TCGCCCAGGCTGGAAGTGCAGT	Chip strong	2518	11.163055	15.452907	898
GGAGTGCAGTGGCGTGATCTCA	Chip strong	2509	9.1686945	10.351524	3303
CTCAGCCCCAGCCCAGATAGCA	Chip strong	2359	8.9799547	12.175259	5776
GACCCATCCTCCACTTGGCAGC	Chip strong	2498	6.505065	6.8388047	307
TGTGCCTAGTTCTGTATTTACA	Chip strong	2504.5	16.729868	8.0277433	7339
TTGGCCATCTAAGCCCAGCCAC	Chip strong	2464	9.1909533	7.750977	7523
AAGGCAAGGCTTCCAGCTCCCC	Chip strong	2465.5	6.0202217	6.2276101	5360
TGCCGAGGCTGGAGTGCAGTGG	Chip strong	2467.5	8.8668938	8.8795528	5670
CACCCAGGCTGGAGAGCAGTGG	Chip strong	2478	9.0987244	11.920556	444
AACCCAGGAGGTGGAGGTTGTG	Chip strong	2482.5	21.895887	11.887776	6437
AGTCGCTGTTGGTCGTGGCACT	Chip strong	2426.5	6.5083675	3.8499751	5117
TCACTCAGGCTGGAGTGCAGTG	Chip strong	2427	8.9816837	12.445157	4921
TTTTGGTTGTTGGGTAAGAGTA	Chip strong	2392	6.2773986	5.6073937	3794
GCCTGTCCCGCACCGGAGCCCG	Chip strong	2397	7.096612	10.159995	610
CCAGGAGGTGGAGGTTGCGGTG	Chip strong	2398	12.923675	7.9789319	4896
GAGGTTGGGGCTGCAGTGAGCT	Chip strong	2391.5	7.2082191	11.666763	1757
CCCGTGCCTTCAGCAGTCCTG	Chip strong	2377	7.0694799	4.8466434	7109
CAAGGTGCCATGCTGGGCGGGG	Chip strong	2339	11.124713	9.2460661	2937
GGAGGCGGAGGTTGCAGTGAGT	Chip strong	2351	14.301351	8.3588333	5269
GCCTAGTGGATTTGAAGGGCC	Chip strong	2352	20.613605	8.8114462	332
GGAGGCGGAAGTTGCAGTGAGC	Chip strong	2314	8.7133474	5.029707	3718
GCCCTCCAGCCTGTGGAACCGG	Chip strong	2293	7.0838871	2.9603255	4934
CTTGCCTTCAGTCCATCAGTCA	Chip strong	2293.5	18.055964	6.2058563	5032
CTGGCTCCTGTTTAACCAGCTG	Chip strong	2294	6.9299874	8.8361721	1564
TCCTGGGAGGCGGAGGTTGCAG	Chip strong	2269	6.121397	7.7621231	864
CTGATCTCAAGTGATCCACCCA	Chip strong	2249	7.9458203	9.493042	1986
CATGGCAGCTCCTCCAGTGTGA	Chip strong	2256.5	6.8781896	5.7773385	2949
CACCCAGGCTGGAGTGCAGTGA	Chip strong	2243	8.5379591	11.457872	6595
CTGGTAGCTCCTGAATATCCCT	Chip strong	2223	17.251909	5.7171526	7371
ATCTCCGAAAGTCTTGTCACCC	Chip strong	2203	6.4477148	2.7755287	5598
ATTGGTAGTTTTGTATTTCTCT	Chip strong	2205.5	12.860962	5.780735	6651
GCTAGGTTGGGGAAGTTCTCCT	Chip strong	2180	6.2453051	9.2986526	2689
TCGTTACCATAGCCTTGTCCCT	Chip strong	2169	6.6286459	10.14022	2615
TTCACTGCAACCTCCGCCTCCC	Chip strong	32044.5	19.90851	19.617628	3208
TGCCCACTGCTGGCCACCACCC	Chip strong	32112	15.630626	16.785101	364
TCACTGCATCCTCCGCCTCCTG	Chip strong	32214	21.241261	13.073997	5947
CTCATTGCAACCTCCGCCTCCC	Chip strong	33077	20.142548	20.350861	5040
GCTCACTGCAACCTCCACCTCC	Chip strong	33649	18.60092	20.711613	2349
GGCTGGCCCCATCCAGGCTGGCA	Chip strong	65518	10.117671	10.864906	212
CGTTCAGCGGGCTGGCCGTGGA	Chip strong	65518	10.117671	31.213285	5831
GCGCTCTCTTCTCCTGGCCCGC	Chip strong	65518	10.953011	12.865757	7638
CTCGGGCACCCTGGTTCTGGTG	Chip strong	65518	11.238881	23.126007	3861
ACAAAGCGCTTCTCTTTAGAGT	Chip strong	65518	11.238881	26.766436	159

AAAGTGCTTCTCTTTGGTGGGT	Chip strong	65518	11.238881	30.157898	1444
GGGGCTGGTCTTTCCACTTACT	Chip strong	65518	11.24554	19.391401	108
GGAGGCTGGCCTTCAGACGGGT	Chip strong	65518	12.034198	25.266558	339
CCTCGGTTTCCACATCTGTACA	Chip strong	65518	12.162615	12.267507	910
ACGCGCTGGGGCGCTGGCCAAT	Chip strong	65518	13.337035	9.5484018	161
ACAAAGTGCCTCCTTTTAGAGT	Chip strong	65518	13.412503	32.421429	261
CGCCTGGCCCCCAGTACTTTGT	Chip strong	65518	14.386203	22.674049	322
GCCTGGCCTAAATTAGTAATTT	Chip strong	65518	14.47023	33.939186	333
GTGGCCCATCACGTTTCGCCTT	Chip strong	65518	14.54515	20.760025	5954
CCCTCTGGCCCCTGTGGTGGAT	Chip strong	65518	14.648276	19.804953	74
CTGCCTGCCTGGCCCAGGAACC	Chip strong	65518	14.752467	36.164337	82
CGCCCGCTGGCCCTGCGATCTC	Chip strong	65518	15.196337	33.776985	294
AGGACCTGTCCCCTGGCCCACT	Chip strong	65518	15.796532	15.770715	165
CAGCAGCACACTGTGGTTTGTA	Chip strong	65518	16.623587	30.172779	155
ACTGCACTCCAGCCTTCCAG	Chip strong	65518	16.869547	28.85684	2446
TGGCGGATCTTTCCTGCCTCCC	Chip strong	65518	17.931589	23.332502	250
CACTGCACTCCAGCTTGGGTGA	Chip strong	65518	18.826578	34.620605	4181
CCAAGGTGGGAGGATTGCTTGA	Chip strong	65518	19.42584	35.754147	1670
CACTGCACTTCAGCCTGGGTGA	Chip strong	65518	19.494125	35.251587	3383
CCACTGCACTCCAGCCTTGGCA	Chip strong	65518	19.59687	23.317396	3776
CCGCCTGGCCCATTGCAGGGCA	Chip strong	65518	19.692606	29.045151	317
CACTGCACTTCAGCCTGGGCGA	Chip strong	65518	19.854979	32.441864	6271
ACCACTGCACTCCAGTCTGGGC	Chip strong	65518	19.886633	30.113441	745
CACTGCACTCCAGCCTCGGTGA	Chip strong	65518	19.946772	34.137524	4299
CACTGCACTCCAGCTCTGGGT	Chip strong	65518	20.15584	31.571056	62
CCACTGCACTCCAGCCTGCCAA	Chip strong	65518	20.333113	17.882483	1118
GTATTGCTTGAGCCCAGGAGTT	Chip strong	65518	20.541035	33.582275	5303
CACTGCACTCCAGCCTGGCCTG	Chip strong	65518	20.659618	21.962681	3357
CACTGCACTCCAGCCTGGCGAC	Chip strong	65518	21.073904	27.87985	8137
AGCGCCACTGCACTCCAGCCTG	Chip strong	65518	21.477427	33.498734	4294
AGCTGGTGCTCGGGGAGCTGGC	Chip strong	65518	21.547987	16.272154	5516
ATGGCTGCCTGGGCGCTGGCCG	Chip strong	65518	22.031187	4.5536995	704
TACTGCACTCCAGCCTGGGTGA	Chip strong	65518	22.371189	36.002476	4919
ACAAAGTGCCTCCCTTTAGAGT	Chip strong	65518	22.461653	34.028076	45
CCCCACTGTCCCCGGAGCTGGC	Chip strong	65518	22.799175	24.102064	71
CACTGCACTCCAGCCTGGGAGA	Chip strong	65518	22.925808	34.725494	685
CATTGCACACCAGCCTGGGCAA	Chip strong	65518	23.259714	27.904207	960
ATTGCACTCCAGCCTGGGCGAC	Chip strong	65518	24.324524	35.482765	6543
ACTGCATTCCAGCCTGGGCAAC	Chip strong	65518	24.732506	33.288292	7070
GGCGCTGGCCTGTGGGATCCCG	Chip strong	65518	24.841112	31.449797	105
TGCACCACTGCACTCCAGCCTG	Chip strong	65518	25.425095	34.867786	5937
TCACTGCACTCCAGCCTGGGTG	Chip strong	65518	25.576307	22.681875	8014
ACTGCACTCCAGCCTGGGCGGC	Chip strong	65518	25.924618	35.366241	1765
ACTGCACTCCAGCCTGGGACAC	Chip strong	65518	25.933289	35.343163	6805
CACTGCACTCCAGCCTGCGCAA	Chip strong	65518	26.453463	34.462708	5891
GTGGGTTCGTGGTCTCGCTGGC	Chip strong	65518	26.617212	17.195196	1080
ATGCCACTGCACTCCAGCCTGG	Chip strong	65518	26.690199	28.459244	4950
CACTGCACTCCAGCCTGGGTCA	Chip strong	65518	26.882214	33.427895	5979
CATTGCACTCCTGCCTGGGCAA	Chip strong	65518	27.010284	16.583426	1937
ACTGCACTCCAGCCTGGGCGAC	Chip strong	65518	27.08153	35.482765	2630

CACTGCACTTCAGCCTGGGCAA	Chip strong	65518	27.199547	28.956656	811
ACTGCACTCCAGCCTGGGTGAC	Chip strong	65518	27.343826	35.625153	2086
GCGGCGGCGGTAGCAAAAATGA	Chip strong	65518	27.5298	22.089998	207
GCGGCGGCGGTCATTGAGCATG	Chip strong	65518	27.5298	33.416046	7217
TCTGCAGCAGAGCAGCTCCCTG	Chip strong	65518	27.5298	35.37384	234
ACTGCACTCCAGCCTGGGTGAT	Chip strong	65518	27.70583	35.281982	6628
ACTGCACTCCAGCCTGGGT	Chip strong	65518	27.764378	33.832714	5906
CACTGCACTCCAGCTTGGGCAA	Chip strong	65518	28.324137	34.314873	5050
CACTGCACTCCAGCCTGGGTGA	Chip strong	65518	28.667358	34.954544	4218
AGGGTTGTGTGCTGGCCGCTGG	Chip strong	65518	29.01285	32.102142	272
CATTGCACTCCAGCCTGGGCCA	Chip strong	65518	29.033922	21.707558	3482
CATTGCACTCCAGCCTGGGTGA	Chip strong	65518	29.090452	30.6901	8078
GCACTCCAGCCTGGGTAACAGC	Chip strong	65518	29.270939	27.328928	7319
ACTGCACTCCAGCCTGGGTAAC	Chip strong	65518	29.763027	35.404873	5883
CACTGCACTCCAGCCTGGGCGA	Chip strong	65518	30.700432	32.102142	4975
CACTGCACTCCAGCCTGGGCCA	Chip strong	65518	31.247635	27.744917	2836
GGTGGCCCCTGGGAGATGCTGG	Chip strong	65518	31.295538	14.111359	14
CATTGCACTCCAGCCTGGGTAA	Chip strong	65518	31.334749	27.271093	5030
GCCTGGGAGTTGCGATCTGCCCG	Chip strong	65518	31.678772	9.6128397	4649
ACTGCACTCCAGCCTGGGCACA	Chip strong	65518	31.833015	34.428837	4728
ATTGCACTCCAGCCTGGGCAAC	Chip strong	65518	33.306091	35.513947	5110
TCACTGCACTCCAGCCTGGGCA	Chip strong	65518	34.101166	18.829176	546
CATTGCACTCCAGCCTGGGCAA	Chip strong	65518	34.565254	30.419044	5699
CACTGCACTCCAGCCTGGGCAA	Chip strong	65518	36.446095	33.140068	5077
ACTGCACTCCAGCCTGGGCAAC	Chip strong	65518	37.057747	34.517231	2913
TGTGCTGGCCTTTGGTGACTTC	Chip strong	65518	44.612064	26.016636	136
CATGCTGGCCCACACCCGCTGC	Chip strong	57891	37.069935	17.358248	176
ATTGCACTCCAGCCTGGGTGAC	Chip strong	57938	24.984217	35.201714	2131
GGCTTCCTGCCTCGGGCTGGCC	Chip strong	58372	13.006404	4.4936109	345
ACCTCCTGGCCTCAAGCAATCC	Chip strong	58457	12.381654	19.294073	3885
CATTGCACTCCAGCTCTGGGCG	Chip strong	59621	23.220642	28.257877	3607
TCACTGCACTCCAGCCTGGTGA	Chip strong	60679	16.108965	25.527098	4711
CCACTGCACTTCAGCCTGGGTG	Chip strong	61492.5	17.94875	20.821732	382
CTCACTGCAACCTCCGCCTCCT	Chip strong	62403	22.993574	18.170233	6736
GGCTCACTGCAACCTCTGCCTC	Chip strong	62440	23.696358	18.67169	5665
GCCTGGCCTAATTCCAGCATTT	Chip strong	62842.5	16.076189	31.293688	334
CTAAATGCCCCTTCTGGCACAG	Chip strong	63453	17.556129	20.293009	6574
TGGCCTCTCCTGGCTGAGTTTC	Chip strong	63656	13.118483	10.569239	4339
GAAGGGGGAAGAGAGCTGGCCG	Chip strong	63993	20.677708	18.040138	305
AGTGGCCTGGAGCCCCGCCTGG	Chip strong	64840	12.445142	20.585953	2814
CACTGCACTCCAGCCCGGGCAA	Chip strong	65046	15.988069	31.551188	1029
ATGCCACTGCACTCCAGCCTAG	Chip strong	49924.5	14.368088	30.30353	3952
CCAAGCAGAGCAGCCTCTCTGG	Chip strong	50138.5	17.876169	21.568254	935
CCCGGCACCTCCGCTGCACAC	Chip strong	50589.5	17.716768	10.848449	72
ATGCCACTGCGCTCCAGCCTGA	Chip strong	50941.5	15.106459	30.447573	60
CCCCACTGTTTTCTTCATCCTA	Chip strong	50957	32.576454	4.8442335	314
CTTGGAGTAGGTCATTGGGTGG	Chip strong	51071	16.39068	33.942337	303
GCTCACTGCAACCTCTGCCTCC	Chip strong	52175	22.994247	20.293594	1457
CACTGCAACCTCTGCCTCCTGG	Chip strong	53207	22.508492	13.233194	3117
AGGTGCTGGGGCTTGGCCTGCT	Chip strong	54992	14.781937	19.839622	150

CACTGCAACCTCCGCCTCCTGG	Chip strong	55476	22.094246	10.714499	6994
ACTGCGCTCCAGCCTGGGTGAC	Chip strong	46098	18.273163	32.816708	4509
TGCCCGGATACCCCTGGCCTC	Chip strong	46111	13.316625	10.030684	240
ACTGCACTCCTGCCTGGGTAAC	Chip strong	46280	12.181033	26.546303	6525
ACTGCACTCCATCCTGGGCAAC	Chip strong	46281.5	15.235478	33.271416	4582
ATTGCACTCCAGCCTGAGCAAA	Chip strong	46579	22.505102	33.557095	278
AGCTCACTGCAACCTCCGCCTC	Chip strong	47293.5	20.812145	17.740503	7285
TCTCTTCGCTGGCCCTCGGGGA	Chip strong	47791.5	15.379544	20.008915	28
CTCACTGCAACCTCTGCCTCCC	Chip strong	48422	24.255339	20.696438	7327
CCGTCCCCGGTGCTGCCTGCGC	Chip strong	48514	9.4747534	7.9190497	180
TCACTGCAACCTCTGCCTCTTG	Chip strong	48652.5	22.205072	18.44136	408
ACTGCACTCCAGCCTCGGGGTC	Chip strong	49031.5	14.262467	31.189104	1898
TGCTAGCTGCCCGAAGGTCTCA	Chip strong	39989	47.058292	15.67876	129
CCTGGCCGCTGTGCCCCCT	Chip strong	40002	11.873036	10.703612	292
GGCCACTGCTCTCCAGCCTGGG	Chip strong	40431	15.55442	22.767414	638
TGCACCACTGCATTCCAGCCTG	Chip strong	41028	15.563788	31.684296	5562
ACACTTTGCCCCTGGCCGCCTT	Chip strong	42189	12.009233	22.436626	143
GCTCACTGCAACCTCCGCCTTC	Chip strong	42294	20.673286	23.478565	2226
TCACTGCAACCTCCGCCTCCCG	Chip strong	42376	22.551825	18.304768	2606
TGACCTCCTTTCTCGACTAATT	Chip strong	43651	10.281033	24.914602	29
TCACTGCAACCTCTGCCTCCCG	Chip strong	43860.5	22.502304	15.810101	7312
ATGCCACTGCGCTCCAGCCTGG	Chip strong	44255	14.692498	32.195774	6919
CTGCTGCGCTGGCCGTCACGGT	Chip strong	45168	18.758972	18.507338	83
TTATTGCACTCCAGCCTGGGTA	Chip strong	45303	21.338472	22.149384	375
CGTGCCACTGCACTCCAGTCTG	Chip strong	29565	13.984879	26.717236	3773
TCACTGCACTTCAGCTTGGGCA	Chip strong	31458	10.144489	22.4685	3168
GGCTCACTGCAACTTCCGCCTC	Chip strong	31704	19.028578	16.190495	4481
CTCAGTGCTGCTGGCTCCTGTC	Chip strong	30057	40.88406	25.543219	324
ACTGCACTTCAGCCTGGGTGTC	Chip strong	30071	14.363188	30.014778	4352
GACCCCTAAACCCGCTGGGCTG	Chip strong	30088.5	13.552105	6.4749699	87
AGCTCATTGCAACCTCCGCCTC	Chip strong	30089	24.942677	12.997955	6521
TTGCCCAGGCTGGAGTGCAGTG	Chip strong	30880.5	19.972326	29.117062	6485
CCTGGCTCTGGCTTCCTGTTGT	Chip strong	34525	11.373339	6.4300051	318
AGTGATTCTCCTGCCTCAGCCT	Chip strong	35041	21.798445	19.430222	1293
CATTGCACTCCAGCCTAGGCAA	Chip strong	35413	18.971554	24.194717	5830
ACCCTGGCCGACTGCCCCTT	Chip strong	35652	12.982363	11.41268	160
GCCTGGCCTCCTACAGTACTTT	Chip strong	35866	15.014146	23.263319	335
CTCACTGCAACCTCCGTCTCCC	Chip strong	36527.5	21.028955	23.176895	3209
GAGGCTGAGGCGGATGGATCAC	Chip strong	37381	14.008185	28.093838	6364
GCCCTTCGGAAAGCGTCGCCTG	Chip strong	37481	13.375318	6.6135831	95
TGCCTGGCCTCCTGATTCCCTC	Chip strong	37634.5	13.004288	2.9085336	32
ATGCCACTGCACTTCAGCCTGG	Chip strong	37857.5	13.168159	31.471567	5827
CCATTGCACTCCATCCTGGGCA	Chip strong	37862.5	18.121622	18.236954	2779
CCAGACCATTTTGCCTTACC	Chip strong	38076	30.955603	11.095823	177
TGGTAGTCGGCCTCGGTGGCTC	Chip strong	38277.5	43.447659	21.633255	4679
CGTAAGTCACAGCGCCTGGCCC	Chip strong	38826	11.506068	25.787857	188
GGCTCACTGCAACCTCCACCTC	Chip strong	38975.5	20.41017	17.418346	4236
GGCTCCCTGCAACCTCCGCCTC	Chip strong	39003	18.926107	13.134951	1449
CTCACTGCAACCTCTGCCCCCA	Chip strong	39028	21.537285	22.098822	5308
TCACTGCAACCTCCGCCTGCTG	Chip strong	39092.5	19.973478	20.767599	2497

ACCATTGCACTCTAGCCTGGGC	Chip strong	24856	14.974783	26.093969	6489
CTCACTGCAAGCTCCGCCTCCC	Chip strong	25071	21.122744	18.134468	5720
CAGGCTCTTCCCTCTGGCCAAG	Chip strong	25089	10.865691	11.601097	67
GATGAGTTTGCCTGGCCTGCAG	Chip strong	25445.5	12.297516	17.035336	329
CGGGTTCACGCCATTCTCCTGCC	Chip strong	25616.5	15.660168	6.7002292	1435
TCACTGCAACCTCTGCCTGCCA	Chip strong	25898	18.696442	17.538256	6576
GCTGTAAGTCACCTGGCCCGAT	Chip strong	26191	8.8471966	25.053482	101
CTCACTGCAAGCTCTGCCTCCC	Chip strong	26494.5	19.073179	16.964733	7823
AGAAGGGCTGGCAGGAGTT	Chip strong	26652	14.563484	25.132761	264
ACTGCAACCTCCACCTCCTGGG	Chip strong	26924	17.396763	10.658098	5639
TGCCTGGCCTCTTCAGCACTTC	Chip strong	27021	10.873885	26.68429	33
CGTGCCACTGCACTCTAGCCTG	Chip strong	27042.5	12.034669	26.515484	2948
GGTGCCCCATCGCGGGTGGCTG	Chip strong	27077	14.316696	22.61035	216
GCTCCTGGCCGGGCTGCTCCTG	Chip strong	27106	14.495318	9.280777	99
AAGTGCTCATAGTGCAGGTAGT	Chip strong	27166.5	9.1624584	28.31859	258
CACTGCAATCTCTGCCTCCTGGG	Chip strong	27656.5	19.716053	17.422838	3029
ATTGCACTCCAGCCTGGGGGAC	Chip strong	27662	16.315468	27.849897	4013
CAGGAAAAGGCGGCTCGGGGCT	Chip strong	27684.5	9.7338009	6.1309323	284
GATGCCCTGGCCTGTCCCCGCA	Chip strong	28071.5	11.474154	19.152775	486
TCACTACAACCTCCGCCTCCTG	Chip strong	28515	18.559631	13.999067	5102
ACTGCACTTTAGCCTGGGC	Chip strong	28568	11.638906	27.546202	1686
TCACGCGCCCTCCTGGGCCCTG	Chip strong	28630	10.411592	10.865385	117
GGCGTGCCCTGGCCCCGAGGCT	Chip strong	28813	10.987214	21.873014	342
TCCTGGGGCTTGTCGCTGGCCA	Chip strong	28926	12.960393	7.4913173	126
TCTCCCCTGGTCTCGCGCGCTG	Chip strong	21744.5	9.9947338	2.3839858	7366
ACCTGGCCAATTTTTGTATTTT	Chip strong	21785	13.908694	17.245144	7405
GCTTCAGAGAGGGGTGAAGCTG	Chip strong	21900	17.158428	13.963737	102
ACTGCACTTCAGCCTGGGTGAC	Chip strong	21975	15.030581	28.149118	5386
TGGCTAACAAGGTGAAACCCCG	Chip strong	22025	9.0206518	5.915132	719
TGCCCAGGCTGGAGTGCAGTGG	Chip strong	22039	16.547016	22.788761	1844
TCAAGCAATTCTCCTGCCTCAG	Chip strong	22552	20.397219	19.767324	7690
GTCATGGTGCTAGCGGGAATGT	Chip strong	23180	29.411751	28.092485	8081
CTCTCCTTGGCCACCTCCATGA	Chip strong	23276	12.960393	7.0737572	299
CGTTGGTCTGTCCCCTGGCACC	Chip strong	23919	9.503809	5.7624073	7846
ACTGCAACCTCCGCCTGCCAGG	Chip strong	24273	17.594145	15.796898	5764
GGCTCACTGCAAGCTCCGCCTC	Chip strong	20587	20.311087	7.2478337	5418
GGCTGGTGGCTGGTTCTGGACC	Chip strong	20736.5	31.680035	17.914019	213
CACCCGCTGGTCCCTGCAGTTC	Chip strong	20816	8.5344362	27.261486	280
CCCTGGCTCACTTTCTGTTGTG	Chip strong	20839	26.185976	5.4283981	316
GGTAGTCTTTGTCCCCTGGC	Chip strong	20872	12.44091	3.1238594	110
CATCACCCCCAGACCTCAGTGC	Chip strong	20958.5	35.708847	4.6072259	313
AGCCTGCGATCCCACCTGGCCT	Chip strong	20991	14.852747	4.5749111	3000
CTCTGCCTCCCAGGTTCAAGCG	Chip strong	20999.5	17.079414	18.674911	6741
ACTGCACTCCAACCTGGGCAAT	Chip strong	21062	16.688629	27.100132	4373
GGCTGGTTAGATTTGTGGTCTT	Chip strong	21258	33.569485	15.757149	9
ACTGCCCTCCAGCCTGGGTGAC	Chip strong	21572	13.925464	26.790289	3240
AGTCCGTCCTGTCAAGCAGCTG	Chip strong	19706	7.5470443	26.932724	2889
ACTGCACTCCAGCCCGGGTGAC	Chip strong	20151	12.282559	27.872829	4228
TTGGTCCCCTTCAACCAGCTAC	Chip strong	20228	9.5504265	23.87529	140
GCTCACTGCAAGCTCCGCCTCC	Chip strong	20232.5	20.168652	18.056574	5806

GTGGCTCACGCCTGTAATCCCA	Chip strong	20268	19.763882	18.321419	2775
CATTGCACTCTAGCCTGGGTGA	Chip strong	20339	32.270233	21.095203	4217
CATTGCACTCCAGTCTGGGCCA	Chip strong	20401.5	25.695589	15.621833	4618
AAAGTGCTGCGACATTTGAGCG	Chip strong	20430.5	8.490345	28.331139	8005
TCAGGGGTTGGCTTGTTGTGTT	Chip strong	20519.5	8.8405285	21.048086	123
GCTCACTGCAAGCTCTGCCTCC	Chip strong	20572.5	19.847269	12.887133	6177
TACTGCACTCCAGCCTTGCCAA	Chip strong	18364	10.029301	16.731598	226
CTCACTGCAAGCTCTGCCTCCA	Chip strong	18388.5	17.632027	21.920879	3227
AATTGCACGGTATCCATCTGTA	Chip strong	18407	8.3120737	26.950815	158
TGGTTCTTCGCTGGGCGGCTGC	Chip strong	18451	17.683105	11.562138	134
CCCTGCCTGTCCTGGTCCCGTT	Chip strong	18466	9.747386	21.814604	290
CAAGCCATTCTCCTGCCTCAGC	Chip strong	18892	18.51676	21.383736	5916
AGTGCTGGGCTATCTACTGCTA	Chip strong	18896.5	9.2577066	21.32906	5033
CTCACTGAAACCTCCGCCTCCC	Chip strong	18912	16.516399	5.5995822	1826
CACTGCTACCTCTGCCTCCCGG	Chip strong	19159	17.182699	10.042536	2117
TCTCCACAGCTGGCCCCCAAGA	Chip strong	19483.5	23.591568	26.742323	231
CGGGTTCACGCCATTCTCCTGC	Chip strong	19575.5	15.317244	7.2952814	4596
ATATGCAGTCTCTTGCCCTTCT	Chip strong	18270	7.3851495	16.705791	3215
CCTCGCTCTCCATTCGGCCCTC	Chip strong	9378.5	6.9943829	8.7534571	76
CCAGGCTGGAGTGCAGTGGCAC	Chip strong	14590	15.059402	24.507948	2356
GGCTCACTACAACCTCCGCCTT	Chip strong	14771.5	14.710124	15.748096	5548
CACAGCCTCCTCTGGCTCACGG	Chip strong	14804	7.7305474	23.87908	7160
CTCACTGCAATCTCCGTCTCCC	Chip strong	14910	15.75562	18.259068	3685
ATGCAGCCCCCTGGTGCCCGGG	Chip strong	14258.5	14.995996	10.545995	2763
TCACTGCAAGCTCCGCCTCCCG	Chip strong	14266.5	28.837795	11.699102	1419
ACCAGCCTGGCCAACATGGTGA	Chip strong	14312.5	12.221603	21.144381	1861
GGCCGGGTGCTCTGGAGGTGCT	Chip strong	14393	11.734104	12.172738	7
GCCCAGGCTGGAGTGCAGTGGC	Chip strong	14406	17.516109	26.539131	3023
TCCGGGTGCCCACGTGCCCCTA	Chip strong	13959	9.6208868	9.7457113	6361
GAGGCTGAGGCAGGAGGATCAC	Chip strong	13980	11.834332	23.254768	1557
GTGGCCCAGGCTGGAGTGCAGT	Chip strong	14037	16.79743	18.340912	4920
CGGCTCACTGCAGCTCCGCCTC	Chip strong	14047	17.9716	6.964889	2543
AGCTCCTGGCTTCAAGCAATCC	Chip strong	14107	10.339123	18.669428	266
ACTGCAAAGGGAAGCCCTTTCT	Chip strong	14213	7.6344547	19.22015	4293
CTGCTCCCCAGCCTGCGCCTTT	Chip strong	15059	11.630778	16.378119	8043
TGGCGGCGTGTGGACTGAGGAC	Chip strong	15121	9.9330997	18.565649	3239
TTTAAATCACAACTCTGCCCCT	Chip strong	15129	15.825633	8.2785378	379
CTCTGTTTGCCTGCTGCCATC	Chip strong	15154	17.421993	10.804789	884
GTAGCTGTGTTCATTCTGGATG	Chip strong	15186.5	37.683685	11.412519	113
ACAGATTCACTGCACTGGCCAT	Chip strong	15207	9.5306025	12.396938	2195
AAGTGCTAGTGAGTCTATTGTA	Chip strong	15263	30.581371	17.914198	156
GCCCCAGCTCACCGGCTCACTG	Chip strong	15345	20.667051	7.4258513	309
GTGCGGCCTGGCCTTCAAGTGG	Chip strong	15350	9.6908836	19.487803	16
ATTGCACTCCGGCCTGGGTGAC	Chip strong	15397	13.824861	25.123175	6763
GCTGTAGTGAATGGCCGCGTTC	Chip strong	15429	10.329166	7.1725068	2584
GTGGCTCACACCTGTAATCCCA	Chip strong	15446	13.370042	20.396935	2343
CACCTGTACAGGGCCGGGCTGG	Chip strong	15471	7.5139775	10.770471	7566
ACTGGGGACTCTGGCCTTTTGA	Chip strong	15830	9.3586321	14.166217	5513
GTTGGTTTTAGCTTGGCCCATT	Chip strong	15833	22.509586	7.6416044	225
TTGATGCCCCGTCCTGTACACT	Chip strong	16077	20.144415	22.335653	253

GCAGGGAACTGGCTGGGCTTT	Chip strong	16084	7.1124773	22.951672	203
CATTGCACTCCAGCCTTGGCAA	Chip strong	16173.5	12.224211	19.366573	396
GCCCCCGTAGTAGATGAGGCGC	Chip strong	16235	27.099997	7.9834018	5078
TCGCCCAGGCTGGAGTGCAGTG	Chip strong	16241	17.047142	24.279329	5948
GTTCAAGACCAGCCTGGCCAAC	Chip strong	16360	17.522753	9.7908163	2075
CGGTGCAGACAGCCCCTCGT	Chip strong	16512	20.916447	10.725959	1091
ACCATCTCCTGTGCCTCCAGCT	Chip strong	16520	12.522655	19.197701	47
TGGGTTCACGCCATTCTCCTGC	Chip strong	16663	15.544313	7.4143276	2734
AAGTGATACGCCTGCCTCGGCC	Chip strong	16691	9.2873106	2.0918362	257
CACTGCAAGCTCCGCCTCCCGG	Chip strong	16707	18.91095	14.108605	3057
GCCTGGCCAACATAGTGGGACC	Chip strong	16749	8.6138811	20.486101	97
TCCTGGCCATCCAGCCTGGGGA	Chip strong	16778	7.2028656	18.973217	362
CACTGCAAGCTCCGCCTCCTGG	Chip strong	16781	17.735508	9.1570225	2344
TCCTCCAGAGCTTCATCCTGCC	Chip strong	16927	20.0035	5.2284846	360
GCGCCTGTGCCTCCTAA	Chip strong	17094	12.760594	23.842529	1
GGGGGCTTGGCCCGGTCTGGTT	Chip strong	17107.5	8.3545551	12.59028	7463
CTCCTTCTGGGCCTGGCAGTGG	Chip strong	17180	8.0816298	15.63814	2934
TCACTGCAGCCTCTGCCTCCCG	Chip strong	17181	17.958405	9.3027229	3506
TTGCCTAGGCTGGAGTGCAGTG	Chip strong	17345	14.202718	24.599249	5848
AGGCTGTAGTGCATGTGCTATG	Chip strong	17379.5	8.1088619	26.406704	4507
CTTGATTTTGTCTCTGGCCCTG	Chip strong	17456.5	9.4672995	8.272316	302
CCTGTGGTCCCTGTCTGTGCCT	Chip strong	17748	13.149311	10.342139	184
CTGTACTTCAGCCTGGGT	Chip strong	17781.5	10.784699	22.153023	7150
ACTTGGAACTGGCCCCTTTCAT	Chip strong	17782	14.512917	23.881441	263
TTCCCTGGGACTGGCCTGCACC	Chip strong	17948.5	9.3010607	15.061718	137
CCCACTGCTGCGCCGGGCGCCG	Chip strong	17950	21.138054	12.695562	6140
AGCTCACCACAACCTCCGCCTC	Chip strong	18085	16.008877	9.1603575	944
GATTACTGGTATTTGCTGGCTCC	Chip strong	13394	25.892035	5.407784	91
TGGCTTCCCCGGAGTGACATGT	Chip strong	13507.5	16.857716	15.057426	660
TCACTGCAATCTCAGCCTCCTG	Chip strong	13609	16.304766	12.973942	7035
AGGTGGCCACAAGGTGGCTGGC	Chip strong	13621	20.378857	17.680929	55
GGCCGCTCTCCGGTGTGGATCT	Chip strong	13720	8.1071081	18.136568	6571
CAGGCGGTGGCTCCTGGCTGAG	Chip strong	13762	7.9819422	4.232655	1936
GGCTGCTGGTCTTTCATAGTGGG	Chip strong	12604.5	21.291653	18.561375	343
CCCCTGCTGTGCTTGCATGGCT	Chip strong	12605	18.076384	11.74684	179
TTAGGGTTACACCAGCCTCCTG	Chip strong	12631	7.6015825	2.2383578	2765
TGGCTTTAGTAATAAGTTTCTC	Chip strong	12660	16.773508	11.141039	131
GCGCCTCCTCGGCCTC	Chip strong	12734	7.9515629	6.2195482	3967
TCTCTAGTCCTGCCTCCCC	Chip strong	12753	19.169752	7.0407801	233
GCTCCCTGGTAGCCATGCTCTC	Chip strong	12312	7.7381911	3.9085872	5854
TTGTCACTGCACTCCAGTCTGG	Chip strong	12372.5	9.9857264	24.029345	255
GGGAAGCTGGTCACCCACAGGC	Chip strong	12450	11.913556	20.388573	107
TCACTGCAAGCTCCTCCTCCTG	Chip strong	12173.5	21.173698	8.2767439	5302
ATGCCACTGCGCTCTAGCCTGG	Chip strong	12177	8.2681303	19.851286	2897
TTGATCTTTTCTTGCTGCCCCA	Chip strong	12258	23.24996	2.8578236	2417
GCCCAGGCTGGAGTGCAGTGGT	Chip strong	12883	15.701074	24.210485	3079
CTCCTTGCTGGTCTGGTGTAAT	Chip strong	12887	13.768332	6.9087734	190
GGCCCAGGCTGGAGTGCAGTGG	Chip strong	12915	16.751265	19.536619	5845
CGCCCAGGCTGGAGTGCAGTGG	Chip strong	12926	16.758549	20.787756	5443
TGGGTCTCTGGCCACCCCAGCC	Chip strong	12948.5	8.0436459	19.699574	369

TCTGCCTTTTACTAGCTGGATG	Chip strong	12954	6.649405	9.6133747	2845
CACGCCTGTAATCCCAGCACTT	Chip strong	13062	15.57386	18.50495	5943
CCCCTACACACCCCTCTTGGCA	Chip strong	13065.5	14.729295	7.0756011	2210
CTCTCGCCAGCGGGGCTGCGCT	Chip strong	13140	7.6419506	17.506365	6926
CGGCGAGCGGGACCTGCGCCTG	Chip strong	13179	8.3394403	5.5586901	79
GCTCACAGCCTCCCCCGGCCTG	Chip strong	13198	7.8765292	3.4258959	98
ATTGTACTCCAGCCTGGGTGAC	Chip strong	13270	14.992455	24.968328	7974
TTTGGTCCCCTTCAACCAGCTA	Chip strong	13310	7.6353297	18.880299	141
TTGCTAGTGTTTGGTTGATGGT	Chip strong	13321	29.278065	21.353354	254
TGGGTCCTGGCTGAAGATCTCT	Chip strong	13345	7.4858232	22.909485	368
GCACTGGCCGCACGCGTAGGGC	Chip strong	11799	10.682883	23.348194	3659
AGCAGAGCAGTCTCCGCTCA	Chip strong	11919	6.4712315	22.303505	146
AGAAAGTGCTTCCCTTTGGACT	Chip strong	11968	7.2289524	23.562014	3761
TCTCTTTGCCTGCTGCCATCCA	Chip strong	11985	23.580763	9.5384855	7553
TCTGCCTCCAGGAGCTGGCA	Chip strong	12022.5	6.4897313	19.629604	363
AGCCCAGGCTGGAGTGCAGTGG	Chip strong	12054.5	14.262013	20.370312	7591
CTCTGATGTCTGCCCCTCACCT	Chip strong	12084	23.231821	2.7038672	300
TGGTGGAGGCGCTGCTGGCCAG	Chip strong	11424	10.211181	12.62489	133
ATTGCACTTCAGCCTGGGTGAC	Chip strong	11488.5	11.742085	23.617636	2330
TTGCCCAGGCTGGAGTGCAGTA	Chip strong	11492	11.738238	20.495441	6041
GCCTCAGTCTCCCGAGTAGCTG	Chip strong	11503	10.848304	18.821283	3634
CGCCTCCTCTCTGTCCTGATTT	Chip strong	11564	15.306285	4.1242805	321
AGGTGCTCTGTGTATGCATAGA	Chip strong	11593	19.340197	19.182079	273
CCTGGTTCAAGTGATGCCCCT	Chip strong	11617.5	9.2222452	3.8587017	7564
GGCCGTCCCTAGAGATGGGGTT	Chip strong	11689.5	8.4446125	7.2657032	104
GCCGGGCCCGGGTTGGCCG	Chip strong	11714	7.709898	8.2685728	4568
CATTATTCTCAGTTCTGTGCAG	Chip strong	11732.5	27.869678	16.957344	285
TGGTTTCCCTTTTGGCCTCTCC	Chip strong	10935	11.08107	6.0971227	37
TGACCTCATGATCCGCCCACCTC	Chip strong	11003	34.517956	15.899262	1030
CTGGCCCCTTTCATTCTGGAAG	Chip strong	11008.5	19.356289	14.29258	196
TCACTGCAAGCTCCGCCTTCCG	Chip strong	11075	27.798988	5.425684	4696
CTGGCTCTCAGGCTGGTCCCCA	Chip strong	11103	17.197889	7.7209744	520
TCTGTGCTAGGCAGCCTGGCCC	Chip strong	11107	23.362293	13.677877	2014
GCGTCCCCATCATCCAGCCGTA	Chip strong	11126	18.896269	4.5503421	3653
ATAGCAGCGCTGGCCCTCTGCC	Chip strong	11135.5	8.3489428	16.26886	58
CATGTGTCTTGCTGCCCTCCAT	Chip strong	11157	17.133692	10.310522	2861
GAGGCAGGAGGATTGCTTGAGC	Chip strong	11218	8.9163761	23.396725	6344
CTGCACTCCCGCCTGGGC	Chip strong	11228	7.6034174	5.8922038	3582
TGCAGCATTGCACTCCAGCCTG	Chip strong	11232	11.505449	21.076042	6386
AGCTCAATGCAACCTCCGCCTC	Chip strong	11240	15.547588	6.5624309	7557
TGCAGCCTCTTGTTTCAGCCCC	Chip strong	11243	17.256807	2.5227482	237
GGGTCTCTGTTGGCTTCTT	Chip strong	11264.5	7.8554482	5.5741806	12
AGCCTCTGGTCCTTTTTTCCCT	Chip strong	11308.5	17.074085	5.3993454	53
AGCTGGTTTAATATGCTGTCTG	Chip strong	11390	14.25641	8.7015753	267
CACTGCCTTGGCCACCTATCCT	Chip strong	10671	9.1234684	14.108407	63
GCCTTGGTGGTTTTGGTAGT	Chip strong	10696	15.110422	8.3110876	310
GTGGTAGCTCCAGGCTGTCTGA	Chip strong	10711	30.533655	22.150589	222
TGCTCTGATTTTTGCCCCAGCT	Chip strong	10768.5	14.230415	7.0602937	244
TCCTGGGCTTTGGCTTGTTGGG	Chip strong	10813.5	7.7058806	7.1675959	125
TCCACTGTCCCTGGCACTTTT	Chip strong	9134	6.4327211	12.8872	356

CGCCATGTCCAGCGTCTTCGGG	Chip strong	8765	20.334946	20.485155	186
CAGGCTGGAGTGCAGTGGTGCC	Chip strong	8766	16.20937	18.915073	2503
CATTGCACTCCAGCCTCCCATA	Chip strong	10435	16.077471	9.6274853	287
AGAGTCTCCCTGTGTTGCCCTG	Chip strong	10467	7.4270558	12.602409	145
TCCTTCCTCTGTCAGGCAGGCC	Chip strong	10471	20.063852	2.295146	26
CTGAGCTCACGCCATTCTCCTT	Chip strong	10524	16.186312	18.177279	2521
TCACCAGCTCTGCCTCGCCAGT	Chip strong	10572	6.2146297	17.905064	4745
ACTGCACTGCAGCCTGGCCAAC	Chip strong	10584	7.3915148	12.856659	162
TTCTTCTGCCCCTTGCCTGACA	Chip strong	10593.5	16.647232	9.2061243	139
CCAGTACGTTGCTCAGCTCCTC	Chip strong	10610.5	11.484417	2.7025924	70
CGCCGCCCTCCGAGGACTCCTT	Chip strong	10614	8.6334085	6.5864415	320
CTCCAGTTGGCCCCAGTTGGTT	Chip strong	10654	12.255802	17.910707	7192
CACTGCAGCCTCTGCCTCTCAG	Chip strong	10661	14.481808	12.50426	5974
TGTCCAGGCTGGAGTGCAGTGG	Chip strong	9691	12.871147	16.345312	3738
CCTGTAATCCCAGCTACTCGGG	Chip strong	9691.5	10.661835	14.316287	5299
GCAAAAAGTAGTGCTGGTTAGG	Chip strong	9711	21.974758	16.433075	7594
TTGCTCAGGCTGGCGTGCAATG	Chip strong	9724	11.115126	19.742767	378
CCCGCGATCTCCTTGTGGCCGT	Chip strong	9728	11.945862	6.9863696	289
GTCCCTGAGCCTGGCATTTCCC	Chip strong	9774	7.691021	2.3762388	990
TCAAGTGATTCTCCTGCC	Chip strong	9836	15.970009	19.168186	4396
TCACTGCAAGCTCCACCTCCCG	Chip strong	9843	15.895414	13.694772	3100
CACCTGGCTGGCAATTTATAAT	Chip strong	9852	8.0965796	17.484594	281
TCAGGGCTGCACTGGCTGGTCT	Chip strong	9852	10.620815	11.96568	355
TCCCGTCTTGCTGTTGTCTGCG	Chip strong	9875	9.3104095	2.2802107	7816
TTGCTGCTCTGCCGGTACAGCT	Chip strong	9885	6.0708628	22.70689	605
CAGGAGGATTGCTTGAGGCCAG	Chip strong	9887.5	8.4761457	19.047802	3921
GGCTCCTGGGGGTGCTCCTGCC	Chip strong	9895	9.94205	8.883275	4474
TGGAGTTGGCTGCAGATGAGTC	Chip strong	9954	13.087917	15.585505	249
TGCCCTGGCTCTTCTTGTTCCA	Chip strong	9983	8.4301682	12.997806	837
TCAAGCAATTCTCCTGCCTCGGC	Chip strong	10092.5	16.702658	19.82888	5111
TGCCTAGGTCTGGCCTCCTTGG	Chip strong	10161	16.315468	2.7759731	31
TCTGCGGTCCCCTTCTCGCCCT	Chip strong	10190	10.797435	8.6208448	2501
GCCAGCCTCCATCCTCCCTTG	Chip strong	10191	21.391727	11.342846	94
TCCCCTCTTGGCTTGGTCCAGA	Chip strong	10285	8.0190945	16.142628	229
GGTGCCCTCTGGCTCTACTCCC	Chip strong	10302.5	7.4917507	16.076124	111
AGGGAAGGACTGCTGGGTTGGC	Chip strong	10310	6.749754	2.3204882	149
CACTGCAACCTCCATCTTCTGG	Chip strong	10365	13.339122	12.537156	4927
CATGCCTGTAATCCCAGCACTT	Chip strong	10382	14.765577	17.657774	7236
CTCCTGCTTCACGGGCACCGCC	Chip strong	10401.5	13.866408	2.1750216	893
GCTGAACGAGCTGGCCAAGTTC	Chip strong	9451	6.6551905	19.321331	209
CAGCCTCTATGCCCCCGTCACC	Chip strong	9484	16.652414	11.957335	65
CGCCCAGGCTGGAGTGCAGTGA	Chip strong	9513	14.644378	17.344313	6683
GCCCGCGGCCCGGGGTG	Chip strong	9597	6.2839761	20.307545	5715
ACTGTACTCCAGCCTGGTGGCA	Chip strong	9608.5	7.5143518	22.582787	2492
ACCCCGCTCCTTGCAGCCTCTG	Chip strong	9609	6.7912097	4.80404	48
CTCTTTGGTTGGTTCCTGATGC	Chip strong	9661	15.128378	18.743273	194
CAGGTTCAAGCGATTCTCCTGC	Chip strong	9179	16.397514	14.266402	3160
AATGGTCTCTTTGTTCCCTGCT	Chip strong	9183	7.6419687	3.2526188	44
GGGAGGCAGTGCTGGAGGCTGG	Chip strong	9212.5	9.3155737	13.897033	6632
AGTGTTGGCTCGGCTGGCTGCC	Chip strong	9220.5	15.521686	7.1320724	151

CCTCCAGAGGGAAGTACTTTCT	Chip strong	9249.5	6.6212044	18.540237	3037
CTCGTGATCCGCCCACCTCAGC	Chip strong	9254	12.490854	15.083214	5888
CCCTGGCTGATACCGGAAAGGC	Chip strong	9281	7.5079288	7.661869	5307
TCCTGCCGTCCTCCGGGGCCTC	Chip strong	9326	11.404112	5.8492618	3729
ATTTACATACCCAGCAGCCTCC	Chip strong	9344	14.651403	5.7202735	154
ACCTTGTGATCCACCTGCTTTG	Chip strong	9350	10.149202	4.1434402	49
TGCCAGTATCCTTCTGAGACCC	Chip strong	9374.5	18.697142	19.309006	239
ATCTCAGCTCTGCCTCCTGGGT	Chip strong	8963	12.361974	12.799247	169
TCCTCCCTCACCTCAGTCTGGG	Chip strong	8976.5	11.361602	9.0995693	361
AGGGAAATCTCAGCTCTAAAAT	Chip strong	8991	16.352005	20.399546	670
TAGCTGAGCCGCCTGGCTGGGG	Chip strong	9026	6.8317003	8.4015751	350
GCCCCTGCCTTTGAACCTGGAG	Chip strong	9052	22.034313	3.550808	916
TCACTGCAAGCTCTGCCTTCCG	Chip strong	9055	9.7306767	11.763208	1093
CCTCTTTCACCGTGCCTGTCCC	Chip strong	8800	16.616077	5.438931	183
ACTTGCTGGCTCCTTGCTTCTA	Chip strong	8816	12.372648	16.758364	2044
ATGCCTGTAATCCCAGCACTTT	Chip strong	8871	12.921462	20.372988	7378
ACTGTACTCCAGCTCTGGGTGA	Chip strong	8927.5	10.2185	21.731802	3711
TCCAGGCCCTCAATCCATTTCCA	Chip strong	8934.5	13.815792	9.5553522	24
CCAGACCCTCCATTCAAGCTCC	Chip strong	8423	9.3362026	7.7677507	3455
TCACATCTAATTCCATTTCTGC	Chip strong	8429	13.263923	4.5787411	6148
TTCACCATGTTGGCCAGGCTGG	Chip strong	8459	15.33227	11.28218	3680
CAGGCTGGCTCCCTGAAGGTTC	Chip strong	8459.5	6.1472831	17.683357	68
AGGCCCCCTCCACCCATTCTGG	Chip strong	2151	8.4221792	7.0899777	3350
GTCTTTTGCTAGCCAGAGAGCT	Chip strong	2153	8.0217466	10.245297	5068
TGCTCTGTTGGCTTCTTTTGTC	Chip strong	8407	17.417171	17.734081	367
GACCTTGTGATCTGCCCACCTT	Chip strong	8467	31.729177	18.925035	6075
CACTGTCTTCCTTTGGCTCCTC	Chip strong	8497	10.860129	11.864268	175
CGCGCTCTCCTTCTGGCACCCA	Chip strong	8509	6.424386	19.448072	1394
AGCACGGTGGGTTTGGCTGGCA	Chip strong	8532	8.91047	7.0811062	163
GTCCTCACTGGCCGCACGCTGA	Chip strong	8536	7.1346483	19.281561	348
CCAGGCTGGAGTGCAAGCAGCA	Chip strong	8552.5	11.002619	19.600433	69
TCTCGCTCTGTCGCCCAGGCTG	Chip strong	8558	11.966861	10.057902	4462
CGGTGCCTCCTCCAGTGTTGCT	Chip strong	8559	10.886886	9.833169	187
GTCAGTCATTGAATGCTGGCCT	Chip strong	8592.5	23.067156	11.230301	15
CTGGAGCAGACAAAAGG	Chip strong	8594	11.848651	3.8546574	7322
CCTTTTATCCCCTAATTGGCCT	Chip strong	8596	19.616385	9.8835402	185
ACCAGCCTGGCCAACATGGCAA	Chip strong	8606	8.2232008	18.60726	5502
GCCTGTAATCCCAGCACTTTGG	Chip strong	8675.5	12.842025	14.392535	6975
CAACATGGTGAAACCCCGTCTC	Chip strong	8706	11.270616	12.27146	2466
TGGTAGGTTGGGCAGTTC	Chip strong	8731.5	31.377066	20.530041	36
AACCCAGGAGGCGGAGGTTGTG	Chip strong	2145	23.003139	12.273234	4480
GTGTTCCTGTGCTGGATGGTCA	Chip strong	2131	11.864914	6.3784571	349
CATCCAGGCTGAAGTGCAGTGG	Chip strong	2134	8.2575912	10.422696	3672
GTGGCCCAGGTTGGAGTGCAGT	Chip strong	2135	12.333922	6.7368903	6070
CAGGCTGAAGTGCAGTGGTGTG	Chip strong	2136	8.2628632	9.4549208	2215
AGCCCAATCCTAGCACTTTGAG	Chip strong	2126.5	6.5217991	3.5096016	1650
CCCAGGAGGTCAAGGCTGCAGT	Chip strong	2036.5	6.6226544	11.643046	6105
CAGTGCACGGGCCAGTCCTGCC	Chip strong	2112	9.479496	10.392011	5812
CCCTCGTGCATCCATCATTTAG	Chip strong	2096	18.148672	2.2716882	3353
CAGTCACAAGCGTACCTAATTT	Chip strong	2097.5	9.4896584	6.2945709	4291

TCAACTGCTCTGGGAAGGTCCCC	Chip strong	2092	6.2979813	3.0802057	6586
TGGCTAGGCTGGTGTCAAGCTC	Chip strong	2082	6.3935094	7.687212	3980
TACTGCGCCTTCACCAAGCGGC	Chip strong	2073	6.069356	2.6888943	4687
CCTCTGCACCAACCTGTCAAGA	Chip strong	2057.5	11.429537	3.11975	182
GTCCAGTTGTATGTCCAGTGTC	Chip strong	2058	8.4334011	5.2194672	7982
TGGAGGCTGGAGTGCAGTGGCG	Chip strong	2034.5	7.5323806	10.788618	5179
CTAGGCTGGAGTGCAGTGGCAC	Chip strong	2019.5	7.9472141	11.208291	936
CATTGCACTCTAGTCTGGGTGA	Chip strong	2023	22.883551	8.942131	4671
CCACGGGCAGATGTGGTTGGTT	Chip strong	2023.5	6.754149	4.0614367	1352
GGAATAGCCTCCTTGAACTCA	Chip strong	2002.5	6.5753565	10.616139	6566
TGGAGACACAGGACCAGACTGC	Chip strong	2004	6.981535	2.3005965	2557
AGCCAGCCAGCAGGTATGC	Chip strong	2011	11.254579	11.186662	1552
GAGGCTGAGGTTGCAGTGAGCT	Chip strong	1999	6.8439331	8.8330622	624
CTTGGTGTTGGCAGAG	Chip strong	1915.5	6.6816697	10.771432	6439
GTTGGCCAGGCTGGTCTCAAAC	Chip strong	1993.5	6.9299874	2.2314062	2785
GCTCAAGCCTTCTGCCCACCTC	Chip strong	1983.5	16.233715	7.6688213	2703
GCTGGCAGACTTCCTCTGGAAC	Chip strong	1985	9.0118723	2.4699371	6314
GCCATTTCACACAGACATTTG	Chip strong	1978.5	6.6882792	9.8837452	5604
TAGGTTACAGCCAGCCAG	Chip strong	1963	10.949057	11.221157	1987
ACCCAGGCTGGAGTGCAGTGAT	Chip strong	1941.5	7.7255301	11.090164	5048
GGGCGGATCATTTGAGGTCAGG	Chip strong	1943.5	6.9547186	9.5280085	6956
TCTAATCCTATGGTGGGGAGGG	Chip strong	1947	8.5338745	6.3978777	3770
CTGGGAGGCAGAGGTTGCAGTG	Chip strong	1910	6.9613633	10.357609	7980
AGGGGCTCCTTTGTGCTGCGTC	Chip strong	1911.5	7.5021071	5.5356297	6327
GGCCCCGCAGACCCAGCACGT	Chip strong	1905.5	6.5486112	6.9167981	7942
CCAGGCTGGAGTGCAATGGCGT	Chip strong	1892	6.8911996	11.028392	5440
CTGTCCTGGGGAAAGCCAGCCC	Chip strong	1892	8.5004892	5.7830157	2319
GGGGAAAGCCAGCCCTGCTTCC	Chip strong	1892.5	6.826138	6.2401505	2001
GGAGGTACTGTAGCTGGCGTT	Chip strong	1877	10.634505	9.6884193	103
GAATTTTATTACTAGTCAACTG	Chip strong	1889	7.8809133	3.6355321	2276
GAGGCGGGCAGATCACCTGAGG	Chip strong	1864	6.033988	5.7446184	1396
CCCAGGAGGTGGAGGCTGCAGT	Chip strong	1868	6.0943484	7.1866341	6272
CAGCCTGTAGTCTGGTCCAGGT	Chip strong	1863	11.233044	10.847687	1563
CTTAGCTGCGGGCCCTCCTCGC	Chip strong	1856	6.910593	2.521337	3308
AGTGCACTGGCACCATCTCAGC	Chip strong	1852	10.573176	7.9208889	7038
TGCCTAGGCTGGAGTGCAATGG	Chip strong	1842	20.142548	7.6070156	2928
TGGGGCCATCTCACCCACTGTT	Chip strong	1828	9.8785877	4.2386732	1399
AAGTGCTGGGATTACAGGCATG	Chip strong	1812	7.3370275	10.102645	4558
GGCGTGGGCGAGGTGCTCTATC	Chip strong	1796	7.1220169	4.9086099	3860
TAGCACAGGGCTCCTCAACCCA	Chip strong	1806	7.8335514	5.4125681	8128
GGTGTCAGACTTTGCATATCCT	Chip strong	1808	6.4814534	9.6383839	7821
CTTGCTGCCAGCCACCATACTG	Chip strong	1793	6.5887036	2.1328712	465
CTGTGGATCTAGAGGGGGCCCTA	Chip strong	1775	6.2498932	3.5819983	2056
AAGGTGGGTGGATCACGAGGTC	Chip strong	1791	6.7066569	9.7404299	1298
CGATGGTATCGGCCAGCCCCGG	Chip strong	1767	10.267977	3.1429348	4051
ACTATAGATGCTGGCGAGGCTG	Chip strong	1628	7.8868184	9.2165308	5750
GTATTAGTTTCCTGTTGCTGCT	Chip strong	1680	9.3465014	4.5677662	3329
CTAGAGTGCAGGTGTATGGTTA	Chip strong	1669	7.7501578	4.8546963	6491
ACCCAAGTTTTCCATGCCTGTT	Chip strong	1669	9.7604237	6.790926	4650
ATGTTCATATCCCCATTCTGAT	Chip strong	1760	8.5004892	7.7344885	5589

TACAGCCTGGCACTACCCTGGG	Chip strong	1762	6.7435856	8.5499544	840
GTGCTTTGCTGGAATCGAGGAA	Chip strong	1710	10.403996	8.5636625	115
GAGTGCAGTGGCGTGATCTCTG	Chip strong	1660.5	23.444746	5.7436481	3428
CATTGCACTGCAGCCCGGGCAA	Chip strong	1619.5	6.7378373	4.1009598	4652
AAGGCTCGGCAATGTGCGGCTC	Chip strong	1617	6.3867145	5.1396852	6339
TGCATTTCCCATTGTGTGGCTC	Chip strong	1610	11.002058	8.2858639	1584
ATTGTACTCTAGCCTCTGGGCA	Chip strong	1599	22.001442	5.7389541	5442
CCAGGAGTTGGAAGCTGCCATG	Chip strong	1605	25.695589	4.5739975	4124
GCCCAGGCTGGAGTTCAGTGGT	Chip strong	1573.5	6.542747	8.0195217	2998
GCAGGTGGATCACCTGAGGTCA	Chip strong	1573.5	6.542747	9.5370836	5775
AGCCTGGTTTAAGCATTTTATA	Chip strong	1553	12.683311	6.2985649	5347
GCCATGACTCTCCATACCAAAG	Chip strong	1592	6.0272546	8.5714464	1270
CAAAGTGCTAGGATTACAGGCG	Chip strong	1593	7.9515629	8.8260517	4626
CAAAGTGCTAGGATTATAGGTG	Chip strong	1570.5	9.1333447	8.6484661	6342
TCTTTCTTGTGGGTGCCCTTTT	Chip strong	1545	6.3253627	3.1718905	3371
ATGTTGGCCAGGCTGGTCTTGA	Chip strong	1527	7.2414885	7.5854573	3272
TAGAAAAGCCCCAGCTGGAGGG	Chip strong	1517	6.2085018	4.9604745	3167
TGGGAGGCCGAGGCAGGTGGAT	Chip strong	1509	6.3071833	8.9423923	3752
TGAGGCAGGCGGATCACGAGGTC	Chip strong	1475	6.1789246	8.965416	1961
AATGTGTTGAATAAATTGTGCC	Chip strong	1493	7.7202153	3.8070927	2372
GGCTCTGCTTGAGGCCAGCCTG	Chip strong	1496	8.5616169	2.8241165	2295
AGCGTGTTGGGAGGAGCTGCAG	Chip strong	1410	9.0065594	8.8227701	164
AGGCGGAAGATGGCCCCATAGA	Chip strong	1471.5	6.9170618	3.567507	4824
TGCCTAGTTCTGTATTTACAGT	Chip strong	1442	7.7322025	7.1628423	6223
AAAGTGCTGGTATTACAGGTGT	Chip strong	1430	8.6389112	8.4515057	7189
TCTTTGCTATTGTGAATAGTGC	Chip strong	1391	23.491186	6.3724418	8140
TAGCATGGCTCTATGGAACA	Chip strong	1393	10.196934	8.9662762	19
AGGAGGGGTTCTCGGGTGCTGA	Chip strong	1395	7.4959846	3.0751243	5315
GTATTTGGAAACCACCAGTGCC	Chip strong	1363	7.8097911	4.1715727	6039
GCTGCACAGACTTGCTCATTTA	Chip strong	1312	8.9211893	4.6518488	7352
AGGTCACATACAAATGCTCCTT	Chip strong	1357.5	10.797435	2.6732337	7601
CCAAAGTGCTAGGATTACAGGC	Chip strong	1345	13.303038	8.4856577	2942
AAAGTGCTGGGATTACAGGCAT	Chip strong	1350	12.683311	10.389113	555
GGCCAAGTGGATGCTGGTTTAGC	Chip strong	1351	6.3048329	7.5876508	6
AAGACCAGCCTATGTTTTCCAT	Chip strong	1307	6.3594904	4.4498701	550
CCACCTGAGATAAGAGAGCTCA	Chip strong	1308	8.4109449	3.6287591	5297
TGACATTTCCTAGTGCTTTGTG	Chip strong	1338.5	7.1093221	8.5563574	543
CTGGCAGGTTATAGAGCTGCCC	Chip strong	1302	7.096612	5.6983724	7000
TAGGTATAGGATTCTAGGTTGG	Chip strong	1295	6.1877456	2.5713561	4519
TTGCACTCCAGTCTGGGAACAA	Chip strong	1228	10.3373	8.1745329	6161
ATCATTAACAGTGCAGGGGTAGG	Chip strong	1291	6.7080827	6.8988318	1590
ACTGTCCGGGACAGGCCCATCC	Chip strong	1271	9.39785	2.6795073	1149
TTGCTTTGCAGTGCCTATAGGA	Chip strong	1273	6.826138	5.0606236	5174
TCCCACACAGCCCGCTCACCGG	Chip strong	1251	17.608366	7.0673199	1843
ACCCGCGAGTCTCACTGCCGCT	Chip strong	1223	6.4206467	4.2665486	5718
TCCAGTCGGATAACTAGACGGT	Chip strong	1198	8.0100813	7.3187399	4126
CTGGGAGGCGGAGGTTGTAGTG	Chip strong	1198.5	12.429611	5.9505429	6203
AAAGTAATTGTGGTTCTTGCCA	Chip strong	1222	8.0042439	4.652194	3786
TATTGAGACCAGTGCTTGCTTA	Chip strong	1212.5	10.770452	7.2894559	896
GCTTTTGAGGTCCTGCTCAGCC	Chip strong	1197.5	6.7212648	2.5839851	5258

TAGATATTTCTACTGTGGATTA	Chip strong	1183.5	14.757196	7.0838003	3968
CACCAAGATGGCTCTAGTC	Chip strong	1185.5	6.8000164	6.9032326	7571
GTAGCTCTGTTTAAAGTTCTTT	Chip strong	1147	7.4468746	3.0822921	2424
CAGCTGCTGTTCAGTTTTGTTT	Chip strong	1104	12.831322	5.0422101	5097
CTCTGTAGAAAGAGCCCAGGTG	Chip strong	1166	10.625381	5.0621781	7435
ATGTGAGTGCTATGATAGACAG	Chip strong	1139	8.0798817	5.4914975	3171
TTGCCCACTGGCTGTTGGTCAG	Chip strong	1139	8.8728657	2.6126466	816
GTGTCGTATGTAATATGGTCCA	Chip strong	1094	6.6816697	4.5326276	2249
TGCAGAAACAAGCCATCATTCA	Chip strong	1094	6.8781896	4.4873405	7971
TGCGCGGCTCAGTCATCTCCAG	Chip strong	1089	7.5143423	5.1979566	1747
GACGAGAGACTCCATCCACCAC	Chip strong	1036	6.9557924	5.046813	7442
GGTGGCAGTAGCACTGGGCCTG	Chip strong	1077	6.041307	2.6370835	1175
CCCCAGGACGTGGCCCTCATAG	Chip strong	1077	10.333858	5.4448314	5306
CCGCGAGGTGGAGGTTGCAGTG	Chip strong	1063	12.456565	6.3330817	5560
TTGTATAGCCCAGAGAGTGAGA	Chip strong	1038.5	17.09399	6.1502376	3479
AACCCAGGAGTTGGAGGCTGTG	Chip strong	1029	21.38809	5.8174529	5546
ATGGAGTTGAGCTCTGTTGTCC	Chip strong	1011	13.675286	3.3669057	2174
GACCACTGGGGTGAGGGCCATC	Chip strong	945	6.8911624	2.022193	721
TTTGCCAGTATTTTATTGATGA	Chip strong	1009	12.247967	3.2183592	679
CCCCGGAGGCGGAGGTTGCAGT	Chip strong	992	11.842708	4.9079785	2394
TCATGCCTGGAATCTCACCACT	Chip strong	942.5	7.7381911	2.2637835	4362
AACCCGGGAGGTGGAGGTTATG	Chip strong	930	22.496128	4.8746562	3839
CCTGTTGTTTACTGCAGTGAGT	Chip strong	567.5	9.4845781	2.2011037	5430
GAGAGATTACCACGCTTCCTGA	Chip strong	976	15.350301	3.126734	3648
CCAGGAGTTGGAGGTTGCAGTG	Chip strong	976	22.883551	4.4426494	2136
AATGCTGAGTCCTGTGAGTCTT	Chip strong	923	6.9686718	5.5901709	5112
AGCATGGCCATCTGGGCCGTCC	Chip strong	878	6.1252327	2.8449426	5518
AGCCCAGGTCCAGTTCACTGCA	Chip strong	910.5	6.2636547	2.1727333	1599
GACATTGCATGGTGGCCTCTT	Chip strong	892	6.8000164	5.5174484	2153
ATCCCAGGCGGCACAGGTTGCA	Chip strong	894	9.5774403	4.2514043	415
GTTTGAGATGGGTTATTGCTCT	Chip strong	874.5	10.573176	4.1083827	6846
CCAGGAGGCAGAAGTTGCAGTG	Chip strong	805	13.60638	2.6678605	2447
GCCCAGAGTTCAAGGCTGCAGT	Chip strong	855	7.0224576	3.0866668	3435
ATTCAGAGCACTGGGTAGAATT	Chip strong	857	20.287172	2.8133147	1535
ATTTACTCGTGCTTCATTGAAT	Chip strong	800	20.287172	4.1256347	1068
AATGGAATACCTAGGTGGCCCA	Chip strong	778	8.4725876	2.240411	5484
TGCCAGTCAGTTGGTGTGGGAC	Chip strong	758.5	10.602533	2.6004431	6358
CTGGGATGCGGAGGTTGCGGTG	Chip strong	769	6.7378373	4.5273128	8074
CAGCTGGCGACTCTCCTCGATG	Chip strong	756	30.601658	3.5022452	7212
CCAGTGGCTACAGGGGGGTTGA	Chip strong	730	9.0965214	2.7821243	6826
ACCTGGAGGCAGAGGTTGCAGT	Chip strong	733.5	17.302393	6.0039067	4004
ATGCTTTCTCTTAGTTCATTGA	Chip strong	735	13.751331	2.5685332	3869
CTTAGTGACATGTATTCTTCAT	Chip strong	737.5	6.6684384	2.0114207	1204
CACTGGGAGCAGCTCCAACATT	Chip strong	637	6.3526735	2.4190891	5142
AACCCAGGGTGGAGGTTGCAGT	Chip strong	637	13.824861	2.1190779	5499
TTGCTGTTTTCCCAATGCAGT	Chip strong	681	15.687518	2.9198182	2260
CCCAAAGGTTGAGGCTGCAGTG	Chip strong	729	17.317835	2.5729179	4827
TGTGACGTTGTTCTGGATTCCC	Chip strong	668	7.6298795	2.998491	499
ACCCAGGCCATTGGCAAGAGTC	Chip strong	628	9.279376	2.5574338	8015
TTCAATAGAAAGTCCCTAGTTA	Chip strong	581.5	10.366647	2.3806331	2080

CCCAGGAGGCAGAAGTTGCAGT	Chip strong	614.5	19.606573	2.3651247	1139
GCTGCAGTGAGCCAAGATCGTG	Chip strong	561	10.3373	2.4339964	2490
CCTGCACCACAAGGCTTCAGAG	Chip strong	544	9.2326555	2.2861676	4457
GCGACGCAGGCACGACGTGTTG	Chip	407	4.3229294	0	1859
TAGAACTACAAGCATTAAAAGT	Chip	408	4.5837574	0	7756
CATGTGAATTCCAAAGCTAGGT	Chip	414.5	4.1733551	0	6454
AGCTAGTATTTCATTGAGGATT	Chip	415	6.041307	0.24871261	7837
GCTGCAGCTGTAGGACACAATT	Chip	415	6.7934761	0	2632
AGAAGTATCAGGAAGATTCTCA	Chip	415.5	8.8620977	0.24693817	5796
AAACTGACGGCATCTG	Chip	416	12.831322	0	3419
ATTGTCGTCAATGGACACATAG	Chip	417	7.2854242	0.20856538	6748
TGTGAGCAGAGACATGAAAAGC	Chip	418	6.7212648	8.5594468E-3	7409
TAACCAAGCAAACTTTCATTGT	Chip	421	5.434535	6.8353221E-2	1198
CTTCTCAAAGTTGTGAATCAGG	Chip	421.5	4.1733551	0.35069525	6121
TCATTACAAGATTTCCAATTTG	Chip	422	4.0386124	0	3196
TGAATAGAGCTGCAGTGGACAT	Chip	422	5.1023388	0	6232
GTGGCATTGCCTTCTGCAGGAA	Chip	422	8.4669981	0.18650818	7074
ATGAGAGCTGATGACTTTACAA	Chip	423.5	5.5248971	0	5923
TGCCATAGCAATGGTAAGCTGA	Chip	424	11.864914	0	3299
TGAATATGTGACTTTGATTTCA	Chip	426.5	6.5486112	0.25128219	7709
TGCACGTGTGAGCATTCACATG	Chip	427	24.615425	0.32512027	7233
TTCCATACGACTGAGGTCTCGG	Chip	428	5.9990945	0.16302724	4698
TGTTTCTGTATGATCAATATTG	Chip	428	9.4489527	0	5687
AAGCATTTCAGGTAGAGATATT	Chip	429	4.1566052	0.41299695	8038
GACAGAGTGAGACCTTGTCTTAC	Chip	429	5.2922459	0.65576822	4597
TAGTGGATGTTCAGAGATTTGA	Chip	430	4.0254292	0.20216984	1807
TTGGATGGAGGTTCAAGCACTA	Chip	430	4.0301342	0.61087269	7761
TAACAAAGTATTGTTTGTGTAT	Chip	430	4.0977721	0.14321998	4929
GTGAGGTGGTACAATATTAACT	Chip	432	4.2171164	0	7494
AAGATGATTATGTAGATTGGGA	Chip	432	5.033093	0.19048747	5175
ACTGCATTTGGTAAAGTCAAGA	Chip	432	15.687518	0.91610241	4313
TTTTAAGTTGGATTGCTAAGTA	Chip	435	5.8500195	0.70143706	1577
TGGCAAGAACTGCAATTGCTTT	Chip	436	8.0042439	0.56466776	5046
ATTAATGAAACTTTGGTTAAGC	Chip	436.5	5.7422438	0.56151348	4353
AGCGTCAATATCGTCAACAGG	Chip	436.5	6.6948843	0	5133
TACTAGGAAGCAGCTGCATTGG	Chip	437	5.7181096	0.59123063	7790
AGGGAGCATTGTGACATATCAC	Chip	437.5	4.8540587	0	7812
ACCAGAAGCTGGAGCACAAGGA	Chip	438	12.68187	0.87860698	7067
ATGGCATTTGAATCTGTCTTTT	Chip	440.5	8.8620977	0.67106444	996
AGAAGGCAAAAGCAGACATCT	Chip	441	7.8927207	0	1897
CCCAGGAGTTAGAGGTTGTGGT	Chip	441	14.359755	0.23043473	3581
TACACTGTTTGAACTGTGGTCG	Chip	442	11.909512	0.31384075	2188
CCTGAGCTTACAATTTAAGAAC	Chip	443	4.1733551	0.83727759	1822
TTTTAGGATTCACATGGATTCA	Chip	444	6.8911624	3.2247718E-2	3551
TGATTTACAGTAGTGTCTAAAC	Chip	445	14.757196	0.51577365	1281
TCAGAGTCTGTGCATTCTGCTA	Chip	448	4.0254292	0	4033
CCAGGAGTGCAGGGATGGTATC	Chip	448	11.467561	0.80949062	770
TAACTAGGATTACAAGCGTGCG	Chip	448	31.862854	0.16327241	4209
CTCGGAATGGAACAACAGCGGT	Chip	449	5.3749018	0.19437546	3759
TGTTTGAGTTCTAGCGCATTTA	Chip	449	16.729868	2.6116509E-2	5661

GGGTTAAAGAGCCCAATGTATG	Chip	449.5	4.1482205	0	7206
AGGTGCCCATGAGCTCCATGGC	Chip	450	4.8216996	0	872
AGCGGCGCCGGAGGGAGGTGCG	Chip	451	9.3864965	0	4155
CTCATTGCAGCTGCATTACTGT	Chip	451	12.775523	0.16016045	5272
GCTTGGAAGTAGGATTGGGAGA	Chip	451.5	11.233044	0	2381
ATCCTCAGAGAACGAACACAAT	Chip	453	4.7837315	0.30605423	7663
AGTGTTTGAGTTTGCGGCATTG	Chip	453	5.2546234	0.20798142	7527
CCGGCTCGGCGACCAGGCTGAA	Chip	453	8.5154629	0	7883
TCACGTGAGGGACCTGTGTCTG	Chip	453	10.747915	0	2860
ACCCCAGGAAGTGGAGGTCATG	Chip	453	15.181713	0	4800
TGCATGGACGTGACTTGGCCAA	Chip	454	9.1805019	0	4531
TCAGTGCAGGGTGGGAGAGAGA	Chip	454.5	12.989676	0	6671
GAAGGACCCTCTGGGGTCTCAG	Chip	456	9.4086676	0	779
TTGGGCTGCAGCAATTATTAGT	Chip	456	12.860962	0	2444
TTAGGTTGGTGCAAAAGTAATT	Chip	458	6.4138689	0.50605494	1671
GCACATGAGAAGCTGGCGATGC	Chip	458	6.7410073	0.13605854	5313
TTGGTCCACTGTGAAATTGGGA	Chip	458	6.8911624	0	5132
ATGGCTAGCACCGCGTTGCTGG	Chip	458	7.5935292	0	7053
CATTTACATTTAAGGTTAATAT	Chip	459	15.639179	0.90401947	7800
TACTGCATTATCAAGGGGAAGG	Chip	460	8.7211084	0.21537885	2893
CAGGTGTCGGTCAGGCGGTTTT	Chip	461	5.7729435	0	1220
ATTGCCCTTGTCAGGCACGGGT	Chip	461	6.1112909	0	4326
TCGAACTCATAGTCGTAGCTGT	Chip	462.5	13.292384	0.62994796	1226
CCTGAGAGCATTCCACACTGAA	Chip	463	4.6639729	0.10041243	3319
ATCACAGTTTTACCATTTGGTA	Chip	463	5.0021725	0.31239566	7817
TCCAAAGTGTTGGGATTATAGG	Chip	465	17.242109	1.3300003	3018
CCCAGGAGGCGCAGGTTGCGGT	Chip	465.5	9.5150204	0.32929623	2392
GGGATAAGAGAGTATTTATGCA	Chip	468	10.801926	0.15427937	1103
GGACTTCATGCATTAACAGCATC	Chip	469	11.994136	0.18171786	6238
GAAAAGGCCTGGGGCAAAGTGT	Chip	470	6.8371511	0	5619
GGCAAGAACCTCAATTACCTTT	Chip	470	9.7505169	0	4432
CCCGGGAGGAGGAAGTTGCAGT	Chip	471	14.907736	0.49508429	7614
GACTACAGGCCGGCATCAGAGA	Chip	472	4.256711	0	5209
TAGGTGCAGGTCACAAGGGATG	Chip	474	27.654337	0	3335
GGAATGCACTAGACTGTGAAAC	Chip	476.5	9.1070547	0	3930
GTCCCGCATTGGGCATTCCTGG	Chip	478	14.542135	0	4164
AGATTCTACCAGAGCTAGTTTG	Chip	479	21.371788	0	5677
AAGCAGCACAGCAATGACTCTA	Chip	480	4.6990032	0.9283309	6282
GAGCACTGATTTATTTTTGTCT	Chip	480	10.607106	0	5025
ATCTGGGAATGGAAGCCTTCTG	Chip	481	9.3413534	0	3105
AGCCACATGGACCTGATGCTAG	Chip	484	4.2733045	0.7509253	1777
GCAGGTCTGTTGATTACAGTCA	Chip	485	4.2067757	0	7345
ACCCGGAGTCGGAGGTTGCAGT	Chip	485.5	18.452694	0.82682765	1663
TCCCGGGCAGGTCGAGCGAGCC	Chip	486	6.8341184	0	2952
GACATTGAGCGTGTCGCAGTG	Chip	487	8.8567095	1.1084136	5486
AGTTTGGGTGGAACAGAGTCGT	Chip	488	5.1635141	0	7451
TATTTCTGGGCAACCATTTA	Chip	488	7.3230996	0	846
TCGTTATAGAACATTCTTGGGT	Chip	488	16.445719	0	6903
CTGAGCACGTAGTTAGGGTCCA	Chip	489	4.1900787	0	2967
TCAAAGATCAGATGGTTGTAGG	Chip	490	5.9690142	1.5394258	5894

GGGAAACTTTCACAATGTCCAG	Chip	490	7.6298795	1.1095848	1081
CCAGGAGGCGGAAGGTACAGTG	Chip	490	11.773943	0.83402246	3146
CACGCACGCTGGGTGGAGGCGC	Chip	491	6.5686502	0	2274
GGAGGAGGGGTGACTGAATGCT	Chip	493.5	5.2837672	1.3940693	5273
AGCAGCAGTGTTCTGGAATTCT	Chip	494	12.105932	0	4017
TACGTTTTAAACACGGAGCCAG	Chip	495	6.9299874	0.23469403	5099
GCCCCGTCGTGGGGCCAGGGAT	Chip	496	11.348816	0	7049
CACTGCCCACCAAGTGGCTGGT	Chip	497	7.1978688	0.85389394	3845
AACCCAGGAGCCGGAGGTTGTG	Chip	497.5	13.279469	0.64875621	6547
AAGTCATTGGTAGCTTGATAGG	Chip	498	6.2697625	1.5118823	5990
AAGCCAAAGTGGGCATGCCTCA	Chip	498	11.990122	0	2355
TAGGGGCAGGATCCTTTGAGCC	Chip	498.5	4.7191281	0.4260765	1644
AGTCCCAACAGCTTACAAGGAA	Chip	499	7.60566	0	6014
TCCGTTTTCACACTGCTATAAA	Chip	499	7.7859778	0	2052
CTAGTTGAAGAGGCTGTCATCA	Chip	501	4.1733551	0	2603
CAAAATGCTATGTGCCCAATGCA	Chip	502	4.0724583	0	6135
CAAAGCCCAGAGGCCTCACTTT	Chip	505	5.3973031	0	7407
TTTGTTTGCCACACAAAACAGT	Chip	505	5.5206022	0	491
GCTTCTGGTGAGGCCTCAGGAA	Chip	505	7.975009	0	4527
CAGAGGTAGCATGCTGTGGCTT	Chip	505	10.797435	0.23278172	7793
GTTGCAGATGTGGAACTCGTGC	Chip	506.5	8.8513184	0.22174729	7281
ACCCGGAGGCGGGGGATGCAGT	Chip	509.5	11.898225	1.782097	6201
TATGGCATTGTTGGTGATGATA	Chip	510.5	4.2171164	1.3768414	501
CTGCTGAGGTGGAGATTGCAGT	Chip	512	26.993624	0	2612
ATCCACCCTGTGGTGGCTTTCT	Chip	514	16.400711	0	7979
GTGGTGTAGGTCACAGTTAGGA	Chip	515	18.389086	0	1993
GGGCACTCAGCTGTAGAGCAGG	Chip	521	4.0618496	0.59147072	2046
GGGACGTGAGTGAAGAAGGTCT	Chip	521	4.1307983	0.64900005	4794
AGCCAGATGAAGAGGTCCTTAA	Chip	523.5	4.1061969	0	3125
GAGAGAAGGGGGATATGAGCCT	Chip	525.5	14.484365	1.9670627	6129
ACTGGGCCAGGTGTGGGTGAGT	Chip	528	13.552105	0	2970
ACTCCTACATATTAGCATTAAC	Chip	528.5	9.7604237	0	1162
GTGTCAGGCCCTGCATTATGTG	Chip	534	11.137771	0	6980
CGCCGTAAATGCAAGCCTGTAG	Chip	535	4.9944282	0	6157
TGAGCATTACCTGAGGCCACTG	Chip	537	12.960393	1.1288414	7777
CACAAACCTTCTGCAGCCTGTA	Chip	539	5.4790416	0	7673
GGCGGGTGTTTTATTCAC	Chip	540	4.327754	0	6522
TTACCACAGTGCCTGTCTAATG	Chip	540	7.5996141	0.97252423	6233
ATTTCCTGTAGGGGCTTGCGAA	Chip	541.5	4.4303179	1.2648014	2272
AAGTTCCTGACATTGCCATGGC	Chip	543	8.2979441	1.8236631	4232
AGTTGGCAGCCGTTGCT	Chip	543	22.772356	0	6297
CTGAGCATCATGGCAGAATCTT	Chip	544	4.9654756	1.8393198	3875
GTCCTACCATGAATTCACTCCA	Chip	546	6.7607136	0.36259127	580
AAGGAATTTGAGGCTGCAGTGA	Chip	547	8.7918367	0	4864
TCACCGGCAGACGTGGCCTGAT	Chip	547.5	6.7174888	0	5984
TCCCGGCGCTGGGAGGTGGGTC	Chip	548	5.4582028	0.1022861	3043
TTGATGAGACCATTGCCGCGTC	Chip	548	7.5143423	0.54138458	2828
TCTCAGCTCATGGCAGCCTTGA	Chip	548.5	14.15205	0	6406
GTGCGCCAGCTCAAGGGGAGGC	Chip	549	7.248138	0	1888
AACCCAGGAGGCAGATGTTGTG	Chip	549.5	15.015123	0.7525751	5381

GCTGGTGAGCAAAGGAGAAGGA	Chip	550	8.0914707	0	6964
GATGAGGACCTACAGGTGGCCAG	Chip	550	27.537556	0	3288
TGTGGTTTTTGCCAGTTGAA	Chip	551	8.2979441	0	7122
CGCTGCGAGGCGCCCTTGTTGC	Chip	551	8.8567095	0.32979745	1530
GTCACCTTGAACAGGCTACTCA	Chip	552	9.9857645	0	611
TTTGATAGGGCATAATATA	Chip	555	18.397886	0	1657
AACAGCTTGCTGCACCTTAATA	Chip	557	6.4138689	0	7021
AGCCTTACATAAACAGCCTTAT	Chip	558	5.5233631	0	3014
CTGACATGTGGGGGATGTC	Chip	558	8.8405285	1.9700389	451
AGACGCGGTGGTGCATGCCTGT	Chip	559	12.046187	0	2164
TCTTGCCGCGCAGGCGCAGTTC	Chip	582	4.7118134	0	4374
GGAGAGGGGAACTTGTTGCTTG	Chip	583	4.8775826	1.4784276	1701
AGGAGGGAGCTTAAGCCAGGCA	Chip	583.5	9.4029713	0	2449
TGAGCCAAGTTCACACCATTGC	Chip	585	5.2922459	1.0937314	2310
CTTCTCGGCCGTGTGGATGCGC	Chip	587	4.1420093	0	6592
GAATGCAGTGGCACCATCTCAG	Chip	590	8.9414644	0	7727
GAGGCCCGGCGCAGGCGGACTT	Chip	595	7.0306478	0	3528
AGTGCCAAATCGAGGGCTCTGA	Chip	595	12.298795	0	4693
GGGGCCTGCACCGGTCTGCGCGG	Chip	596.5	5.8669548	0	3831
ATGCGGAGCCCCAAGCTTGAAG	Chip	596.5	5.9970665	0	1309
TCTAATTTTGGCATTTTAACCT	Chip	597	16.172768	0	535
ATTGGCCATTTGCATGTATTAT	Chip	599	5.7133183	0	6604
TGGTCACTGTGGATAGTG	Chip	599	7.1978688	0.10208545	1066
GGAGGTGACTGGATCATGGGCA	Chip	600	4.7118134	0	2510
TGTGCTGGAGATCAGCTTATTT	Chip	601	5.2590327	2.1514578	1568
GAGATACTTAAGATGGGGCTCC	Chip	603	5.4047599	0	7660
ATGTGAGCTGGGGCCCGGCCAG	Chip	603	5.9279523	0	2673
GAGGTAGGTGTAGGAGGCCTGC	Chip	605.5	15.989591	0	4320
TGAGCTGCTTCTTATAATGTGT	Chip	606	4.6176581	0	3966
ATGCCCAATGTCACAATTTTTG	Chip	608	5.1635141	0	545
AGGAGCCGGGCCTGGGCCCTGC	Chip	609	8.5671558	0.8987155	4177
AATGCCTTGGAGAGCCTAGAGG	Chip	610.5	5.5086098	0	1836
AGCCTAGGGTTCTGATGTCACT	Chip	570	5.0253716	0	6248
TCAGCTTCGCCTGAGGTATGGG	Chip	574.5	9.0224905	0	7153
GGCTGGGCAGGTCTGCACAGGG	Chip	575	6.1669488	0	7602
GAGCCAAGATTGTGTCCCTGCA	Chip	576	8.4221792	0	5971
TAGAAGAAAGTGAAGCTGGGGA	Chip	576	11.429537	0	3072
TAAACATAACCTTGTATGGCT	Chip	577	7.60566	0	5651
CACTCTGCGCTGGGCGCCAGCG	Chip	580	8.6578741	0	6781
GATCGGGGGCGCCCCAAG	Chip	581	7.5813851	0	4979
GAAAGAGAACCTGGGCCTAGAT	Chip	617	34.624321	0	1015
GCTCTGTGTTACAAGTTGGGG	Chip	617.5	4.9355788	6.8681851E-2	4295
TGGGGTACACGTGGGGCAGGAT	Chip	618.5	4.2317729	1.5335078	5445
TCTCTTGAGCTCAGTTCTGATG	Chip	618.5	4.7513571	0	5480
TGGAATCATTGCTGTGTTGCTT	Chip	620	4.6990032	2.0980077	5171
TGGCTCCACAGGCCAGGGTGTG	Chip	622.5	4.2067757	0	547
GGAGAGTGGATTCCAGCTGTAT	Chip	625	6.4392424	0	7623
GTGGTGGATGTCTGTAATCTCA	Chip	625.5	12.886829	0	4036
AGATGTTTATAACTCATGAGTG	Chip	626	5.7181096	0.77803987	6432
TCAGCCTGGCAGGATGGCCTGG	Chip	639.5	6.2911248	0	5833

AGCCCCTTGTGGGCGCACAGCA	Chip	643	4.2898717	0	5569
CCGGGAGGTGGAGATTGCGGTG	Chip	644.5	6.6419034	0	2852
GCTGAGGTGGAGGAAGGAGACC	Chip	644.5	20.633234	0	6512
CACCGAGTGACAGTAGCCATCA	Chip	645.5	8.2751999	0	629
ATGTATACGTGCAGGTCACAGG	Chip	648	7.0392289	0	5338
TCATTGTGCTGAGCAAGGT	Chip	648.5	18.055964	1.5568053	6349
CCAGGCAGCCTGCTCCATTCTG	Chip	649	5.3638248	0	6520
GTCACCCGTTTGACTATCCACC	Chip	651	4.019371	0	1095
TCCGGGGGTGGTAGATTTCCTT	Chip	652	14.181099	0	7895
GTGTCCTTTCCGGGCCTGGAGG	Chip	654	6.6171184	0	1173
TTCCTGCAGGCCATAGAGCCTG	Chip	657	5.9990945	0	7292
ATCCCTGTGACGAGCATCCCTA	Chip	660	5.1823177	0	1003
CTGTGGTACAGCTGGGACGGA	Chip	664	4.6319594	3.5137784	2399
CCCACAGGTGTGAGCTTGCTGG	Chip	665.5	8.2409916	0	2347
TGTGGCCATTCTTGAGGTCGAC	Chip	668	5.7854853	0	5822
GGAGTGCAATGGCGCCATCTCGG	Chip	668	7.5813851	0	5892
AAGAGGTAGCAGTCACAAAAGA	Chip	682	4.1900787	3.1956244	1962
AAGAAGCATTCTTTCATTGGTT	Chip	682.5	29.800766	0.11257268	459
GGGCAACAGAGCGAGGGCCTGT	Chip	684	13.675286	1.2772781	5909
GCTTCTCGGGCCTGATGTCGTC	Chip	685.5	5.4660602	0	4795
AGCTCCTGAAAATCCAGACTGG	Chip	690	4.3064132	0	1369
GGCAATCATTGGCATTCTCTGG	Chip	691.5	9.1205435	0.58638209	4922
TGTCTGGATAGAGCCTAGGCCC	Chip	692.5	13.849563	0	4574
CTAGATAACTTATTTTCAAGGA	Chip	693.5	8.8026762	1.9033302	2380
TTGAGGCAGGTCCGGGTCCTTC	Chip	695	9.4086676	0	4316
CTGAGATGGAGTTTCGCTCTTC	Chip	696	5.5946345	0	6303
AACACTGCTGCTGGGTTCTGTG	Chip	698	8.1738958	0	7661
TCCTCATTCTTGGTGCATCAAA	Chip	700	17.810143	0	6581
AATGCTGCTTCTTTTTGCAT	Chip	701.5	6.8995986	1.0125313	1498
TGCCTCAGCTGAGGCCGCTCCA	Chip	702	5.5968246	0	3211
GACTTCTGAATTCCTATCAGGT	Chip	707	5.1406145	0	1742
GTAATAGTCTCAAACTCCTGGA	Chip	708	17.242109	0	3577
GGGGTGGATTTCAGGCGGTGTC	Chip	710	8.483757	0	2743
AAAATATGTATAACTCTTCTGC	Chip	712	6.7738304	0	4196
GCACATGAGGCTGTCTTTGTCT	Chip	714	6.0531082	0	3981
CAGGGTGACAAGTGGCAAGGAG	Chip	714.5	6.6849232	0	630
TGTGACTAGGCCTGAGCTCTTG	Chip	715	5.0013514	0	2104
TCAGGTCCAAGATGGCCATCCA	Chip	715	8.1952085	0	5324
GGTATATGGGCCTCACTTG	Chip	716	4.1230264	3.7952623	2063
AATGCTGCTTCTTTTTGCA	Chip	716	6.9580421	0.19260259	2647
AGGGGAGGTGTCCCCAAATCTC	Chip	717	9.0071344	0	2351
TCTCCATGGATTTGGAAATGAT	Chip	718	4.5434222	2.3216989	4119
GCTCCAGTGACCATCGTTTTAG	Chip	719	4.2234468	3.1870663	6658
CATGGTGATTTGCGCCTTCTAT	Chip	719	5.123785	0	2327
TAATTTCAGTGCAAGCTCACGG	Chip	719	13.696744	0	6456
GTGGGGGCAGGCAGTGCTAGGA	Chip	723	7.3230996	6.7598522E-2	5993
TGGTATGCTTATTATCTTCAAC	Chip	728	8.4669981	0	7732
CTCTAGCTCCCAGGGAGCGTCT	Chip	668.5	6.4003	0	5415
ATGGCCTGCAGTGCTGCCACAG	Chip	670	14.67015	0	937
CTGCAGTATGAGCTACCCAGGT	Chip	671	4.2650108	3.2315347	8052

ATTCTGGACAAGGCAAGCTCCT	Chip	671.5	6.9580421	3.3300094E-2	1743
TGGAGGCAGCCGTGAACCACCT	Chip	672	4.9556217	0	7688
GGGAAACAGCCCAGGCTCAGGG	Chip	672	7.691021	0	4034
ATATGTGGCATTATTTCTGAGG	Chip	672	15.917648	0	2655
TTTAGGTTTTTTCACGTGGCTA	Chip	673	4.8540587	0	6257
ATGCTTTCTTGTGTGCTGCT	Chip	673	9.3619328	1.8766843	1392
AGGGGCACGAGTAGAGCTCTAG	Chip	674	7.1852641	0	2471
GTGATTTTCATGCCCTGCTAGG	Chip	674.5	7.3355422	0	6969
CGTCTAGGCCGTGCCCTGAGGT	Chip	675	4.1926575	0	6959
GCCCAGAGTTTGAAGATACAGT	Chip	678	17.515587	0	4159
CGTGGGGCGGGTGGACACTTGC	Chip	681	4.7197661	0	4471
GGTAGCCAATTTAAACATTTCC	Chip	681	12.129737	0	1585
CTCGATTGAGTAGGCCAGCACT	Chip	633	30.601658	0.83583182	5192
CCGTGTGCACGCGCCGGTGCTG	Chip	636	4.8875899	0	4792
TTGGGGTCCCACAGGCTGCCTG	Chip	636	5.9998269	0	7998
ACACATGGTCTACTTCTTCTCA	Chip	636.5	8.1722431	0	7052
TCTCTGGACTCGAGCTTACTCA	Chip	729.5	5.9595518	0	819
CCCCACTACCGTGATGTGCGAGG	Chip	738	7.4284	0	4604
GGTGCCCAAGGAAGGTTGCCGT	Chip	739	7.9867125	0	6872
GTGCTAATGAATTGGAGTGCCT	Chip	743	5.2697325	1.8966018	5534
TGGAGCCAGCGGCCTGCTGAGG	Chip	744	4.4214902	3.8499751	3540
TTGCTACCATTGATACCAGCAC	Chip	748	5.1863647	4.3822565	1461
TCACTTGAACCTGGGAGGCAGA	Chip	750	12.380392	0	4966
GGGTCGGGCAGGCGCCCTCGTC	Chip	752	8.9014053	0	1934
GGGCTCGAAGCGCTGGTGGTTG	Chip	753	5.1253204	0	4848
GTCAGCGTGCTCAGCCTATTAT	Chip	756	4.9074416	0	5183
TCTAAATTACTTTGGGCAGTAT	Chip	761.5	6.2697625	1.6999904	2670
GGCCTCTGCCCCGCGGGGCTCG	Chip	762	7.9339442	0	2699
TGCCATGGCCTAGACCTGTGAT	Chip	762	18.256193	0	7177
GTCTCCTTGTGGATCTCAAGGA	Chip	763	4.5378304	0	4260
TCACATTTTCAAAAGCTGGTGC	Chip	764.5	10.310376	0	1471
TGCTAATAAACTCCAGGCTGAG	Chip	765	9.6709318	0	5051
GGGGTCGGGGCATAGCCACTTA	Chip	766	5.4790416	0	2832
TAGCTACCATTATTGAGCACCT	Chip	757	4.2067757	2.5492058	5614
CTGTGGCCAGAGCGCCGTTGAC	Chip	758	4.4069309	3.8043509	5939
TTGGCGCCCAGGACGCCGCCGC	Chip	758	5.6465821	0	3563
ACCACTGCCCATGGTGAAAACT	Chip	770	5.6754804	0	4415
CCAGCTTGCTCCTCTGCAATGG	Chip	771	5.1329703	0	1146
CCCAGAGCATGTGCTGCCTTTG	Chip	772	5.8999434	0	4850
AAATGCCTCATTTTCTCTCACT	Chip	773.5	5.2546234	0	6758
AAGAAGAGAACTGGCATCCTAA	Chip	776	16.804207	0	1366
AGGAATGTGAAACAGGTGGCTG	Chip	779	11.010866	0	1520
GTGCTGGGGAGATAGGAAGAGA	Chip	779	22.632921	0	7145
GGTGCCAGATGAGGCCCGCGAT	Chip	782	4.0893412	2.3830264	1793
TGTGGGGATCTTCTAGCTTTTC	Chip	782.5	4.3133802	0	3141
AGGGCTGCCCAGTGTGAGAGCT	Chip	783	10.117671	0	6700
GAACTTGCAGCTGTGATTTGTG	Chip	783	13.552105	0	7512
GAACCCTAGCATGTCCTTTAGG	Chip	783.5	5.8142152	4.4672356	6126
CAAGTAGAACAGAGCTACCTTG	Chip	784	4.3229294	0.8555572	1075
TCGGGCTCGCTCTCCTAGCGGA	Chip	784	10.629307	0	1614

AAGCCAGGTTCCATGGAGGAGC	Chip	787	4.8854122	7.1262881E-2	2692
GCGGGCCACCTTGGAGAGCGCT	Chip	787.5	6.7146759	0	6873
AGCTCTGCTCGGGCATGCCCTGC	Chip	788	12.030199	0	6294
TGCATGGTGTAATTCTAATGCT	Chip	788.5	9.2577066	0.38619444	1525
GTCCAGGCCTGCCTCTGAGGAG	Chip	789	4.3558846	2.512171	4749
GCACCCTGTCAAAATGGACCAA	Chip	794	6.4544711	0	7097
ATGGCCTCAGCATGGAGCTTCG	Chip	794.5	5.0869894	2.2018771	6103
ATGCAACTACCCCCAGGATTTT	Chip	799.5	6.5352135	0	1780
TTGAGACTGAGTCTCGCCCTGT	Chip	800	5.8500195	0	1292
AGCCCGGCTTCCCCGGTTGCTA	Chip	806	4.927527	0	6912
AATCCAGGTGGCGGAGGTTGTG	Chip	806	24.423626	0	1545
TGTGCTCAGTCTTTGGCTGGGA	Chip	809	11.820129	0	7626
AAGGCTCCAGTGAATGCTGGCA	Chip	816.5	9.4591436	0	7508
CCTGTATGGCTATTCCTTGGAC	Chip	822	6.8911624	0.90677857	5015
ATTGGCCAGACTTATCCTTCAG	Chip	823	11.734104	0	4651
GCTAGTGTTTGCCAGCGTAGCC	Chip	825	4.6319594	4.9597144	6749
TGCCTAGGCTGGAATGCAGTGG	Chip	827	4.6159163	1.3404014	3756
AACTTGCCAAGAGCTTTGCTAG	Chip	828	5.1558862	1.5425116	2386
AGCCTCTTGTGGATGGTCAGCGA	Chip	832	20.01862	0	2359
CTTGAATGTCCTGTGGCAAAGT	Chip	834	4.5484204	0	2316
ACAGCAGAGCCTGGTACTTACT	Chip	834	5.6041431	0.60750878	5561
ATGGGTGCAGCATGGTGGGAAC	Chip	835	4.6319594	3.9546115	5542
GCCTGGCGCCGGGCTGCCTGTC	Chip	835	11.484417	0	1333
CAGGAGCTCAAGACCACCCTGG	Chip	835	22.221758	0	3287
TGGCCCTTGTTCAAATATGTCA	Chip	837	5.359941	0	3462
TCTGTAGCTTCTTGAGAGGCCA	Chip	837	5.8042397	0	3218
ACCCTGGAGGTGGAGGTGCAGT	Chip	837	15.820662	0.62484062	6967
CACTCCAGTCTGGGAACAAAGC	Chip	838	10.3373	1.8536514	5397
TGGCCTCTGAGATGCCACGG	Chip	839	5.7350197	0	7683
ACGGGCCTTCTCTTCAGGCGAG	Chip	839.5	9.0489893	0	6989
GGAGGTCCCAGGCCTGGCAGCA	Chip	840	4.0342441	0	3005
CTTTTTCACTGTGTCCTCACAC	Chip	846	4.9113712	0	1828
CAGCAGGAGGTGAGTAGCAGGT	Chip	803	4.2898717	3.117506	6313
TCAAAATGCCGAGTGCCCAGGT	Chip	804	5.4790416	0	3690
ACCCCAGAGGCGGAGGCTGCAG	Chip	804.5	10.3373	1.7294502	3879
AGTGCAGGCCCCAGGCCAGGCC	Chip	858	15.229292	0	8013
TGCTGTGAGGTTGAGAAGGAAG	Chip	863	9.9128065	0	8131
ACGGGCTGGGACGGGGAAGCTC	Chip	866	6.1524086	1.177045	942
GTGACATGGTTTGCCGTCCCTG	Chip	867	5.6837163	0	6486
TCTGCTCAGCCGATCTGCTCCG	Chip	867	5.98734	0	4273
CCTGCGGGCTGTGCTGAAGCCT	Chip	878	7.2651324	0	5020
GCAGTGGCATGATGTGGGCTCA	Chip	879	4.743588	0	6136
TCCCTAGTCGCATCTGTGGAGA	Chip	879.5	5.6843143	4.3106165	6425
CTGTACTTTTGCAGGTCACAGC	Chip	880	6.3458524	0	3919
CCTGTGATATTGTTCATAATAT	Chip	882	6.3526735	0	6827
TTAGTGCTTGGCACACAATACA	Chip	883	6.5083675	0	4704
CCAGTGTGCATTATCATGTGTC	Chip	883.5	4.0270753	0	8143
CATAATTTCTACCAGGGCCATA	Chip	886	5.9354606	1.0480881	3260
CTTAGAGATGGGTTTTACTTAG	Chip	886	7.7022095	1.8901725	551
GTGCTGACAGGAGCCTGGCGGT	Chip	887	4.5548515	0	3849

TGCCTGTGGAAAGGCTGGTGCT	Chip	890	5.8571658	2.275178	7828
AGGCGCATTGAGGCCCTGTTGC	Chip	891	6.5352135	0	4378
AGGGACTATTTACCCATCTCAC	Chip	892	4.1817203	1.2194986	5227
ATTACCGCTGAGTCCTATGGAG	Chip	896	4.5434222	5.959722	3601
CCAGACTCATCTGCCATTGCTG	Chip	897	23.311127	0.8450678	2416
TCTCTGGTTATGTCATTAAGCA	Chip	898	6.6948843	0	449
GGCGGTCAGCGTGGGAGAGGCT	Chip	899.5	5.8892388	0.20070651	2679
CTGCTGAGCCGCACCCAGGAGC	Chip	900	4.6381359	0	2391
CCTGGTGCAGGTGTGTTGCCAG	Chip	900	6.323246	0	6609
CTGTAATCCCAGCTACCTGGGA	Chip	902	4.8697472	5.3667827	8092
TACAGTGCTTGGTATCTAGTAA	Chip	902	5.1863647	2.0677381	6371
GATGGCCTCATGGCTGCAGGCC	Chip	902	5.1939707	1.0811797	5352
AGCTTTTAGCTCCTGGTTGCAA	Chip	903	4.5837574	5.3579297	7894
CCAGCTTTATAGCTTCAAAGGA	Chip	906	6.097331	1.0239685	838
CATTGCACTCTAGCCT	Chip	875	5.6377931	2.2476213	5600
ACTGGCCAGCCAACAACAATAG	Chip	877	11.868977	0	995
TTGCTGGAAGGTGGCTGGAATC	Chip	877.5	4.3229294	0.55562276	4772
CTCTCTGGGCCCAGTTGGCACC	Chip	913	5.2497282	0	445
AATAAACAAAGGACAAGGAGGT	Chip	913	8.9799547	0	1800
TGGGCCCGCAGCTGCTGCTCCA	Chip	914.5	5.5086098	0	3907
CTAGGGTGTGCAGATTTTGCCT	Chip	921	4.2067757	0	6970
CAGGCGGGCAGGTGCGGCCCCT	Chip	921	5.0942249	0.94588989	1129
TCCTGTCAAGTGCTTGTTCCTGC	Chip	921	14.462107	0	6786
CCCTGCTGTGTAGCGGAGGAAC	Chip	951	5.2697325	0	3684
TGTAGCTCTCCAGCCAGCAAGG	Chip	954	20.069492	0	7896
CCTGTCTCTGCAGGGCCCTGCC	Chip	957	4.5704069	0	2495
CCCTCTCGCGGGGCAGCGGAGG	Chip	957.5	4.7794881	0	3844
GCAGGCTGTCTAAAGTTAGAGT	Chip	960	5.3449593	4.6880941	5184
TTCTCCTAGGCTGAGGCGGGA	Chip	961	6.1913404	0	7826
TTCTCAAAGTGTGCTCCCTGGA	Chip	961.5	4.2129807	0	2474
GGTGTGTCTGCCAGGAACTGCA	Chip	963	11.534825	0.66818869	4366
TAGCAGAAGTTGCAAACTAGGG	Chip	964.5	4.9478436	0.67141521	931
AGGTGGCAGATGGGGGTGCTCG	Chip	967	4.0170503	0.22677642	6101
GTCACTCAGGCTGGAGTTCAGT	Chip	967	4.7555313	2.6958821	4261
CAGGAAAGGGATGGGCTGCCAC	Chip	967.5	5.9425497	0	7781
TGCTCCATCTAGAGCTCTGCAG	Chip	969.5	20.895596	0	998
TATTTGGTGAATCTATGGTCAG	Chip	970	4.502933	1.3941963	3363
GGGATTACAGATGTGAGCCATT	Chip	565	16.233715	0.93799287	3649
TCAGGGATTAAGGTCAAAGGTG	Chip	566	8.9372482	0.86125702	3077
CTGGCCCAGGTGGTCGTTGAGG	Chip	928	7.3095355	0	7397
TGGCTCCGTTGTACAGGCTGGA	Chip	930.5	7.3230996	0	2494
TTTTGGCCACATCCTTTTGAGT	Chip	932	4.3311777	5.6849165	511
TCTGGACAGGGGCGCTTTGGGG	Chip	933	4.8068542	0	6648
CCAGGTAGGAGAGTCAACATGT	Chip	933	4.8226123	0.57364786	1224
AGGAGCGGATGTGTCCTGCCAG	Chip	939.5	5.0623851	1.831581	8099
GCTCGGTGGCCAGCCTGAGGCC	Chip	942	4.2540503	0	1802
AGCGGCGCCGAGCTTGGCCAGG	Chip	978	16.791355	0	2337
AGATGGAGTCTCACTCTTGTTG	Chip	982	4.1246719	0	877
AACGCCCAGCCTTGATCAAATG	Chip	983	5.3299565	0.62059402	709
GGGACAATGGAGGCCTCTCTCC	Chip	983.5	5.7422438	0	2535

TGTCCGCGGTTTGCGTTGTGGG	Chip	985	5.1314249	0	552
AGATTCTTGAGTAGCTGTGCTT	Chip	987	4.8932362	2.5229793	5850
AGTCCGCGCTCCATGGGAGTCC	Chip	987	9.5048828	0	6635
TGAACATGCTGTTGATGGCCTG	Chip	991.5	4.3887382	0	6462
TCTGAGACTGGGTTAGAATGT	Chip	993	4.4760852	5.1122303	1948
TATAGCAGCATGATTTATAGTC	Chip	993.5	6.7212648	0	5013
ATGGGTCAGTTCAGTGGCCAAC	Chip	999.5	5.8428679	0	2842
TAGAGGATGATCCTTCCTTGCC	Chip	1000.5	9.1205435	1.0477313	3234
CCTCCTGCACCTCCAGGAACTC	Chip	1002	10.534293	0	761
TGTGCCCAACGTGCAGGTTTGT	Chip	1005	4.2650108	0	1169
TGCTGATGGTCCATTAGT	Chip	943	4.6639729	1.4060062	7992
TCCAGATGCTGCACATTCCTGA	Chip	1010	4.838347	0	2021
AATATTTCTTCTAAAGCCCTTT	Chip	1018.5	4.8226123	2.7607162	852
TAGGCCCCTAGTGCCACGTGGC	Chip	1019	6.2979813	0	3650
TGCTGGGATTACAGTCATGAGC	Chip	1020	4.8540587	0	3800
AGTGCCCTTTACAACTTCTTGA	Chip	1021	6.4679708	0	7884
CTCAGTGAATTGGAGGATGGCC	Chip	1023	7.8454118	0	3518
TTCACAGTGGTAGTGCATTTAG	Chip	1025	5.033093	6.1715879	1385
AGCCCGCATCTCGCTAAAGATA	Chip	1037	4.4051266	0	2989
CCTTCTAGCAAATCAACATAAA	Chip	1037	18.803524	0	2073
CATTGCAACTTCAAACTCCTGG	Chip	1037.5	19.847919	1.7158511	4074
AGCCTCAGGTTGTTGGTTCTT	Chip	1042.5	4.1900787	4.8052392	1089
AGTCGGAAGCTGTGCGTAAATC	Chip	1043	4.256711	6.0202398	5709
GATGCGGGCCCGCTCCACTGCC	Chip	1043	4.4866943	1.3823857	2800
CTTCTGGCGTTGGAGGTCTGAG	Chip	1043.5	4.5190501	0	3284
TTGGGATTACAGGTGTAAGCCA	Chip	1046	14.053276	0.31409904	1022
GTGGTTGTTTCCAGGTTTGAAA	Chip	1047	5.1352386	0	4697
TTCTGGGCACACAGGCCCTGGT	Chip	1050	6.4271297	0	5895
TCCGCCCGCACGTATGGAGTGG	Chip	1051	8.5338745	0	5473
CAGCCTGCATCATCTGCAGC	Chip	1052.5	20.971851	0	7025
TTCCGGACGCCCGTCTTCCAGC	Chip	1053	15.188011	0	934
CAGCAGAGAAATTACATATTTG	Chip	1053.5	5.0869894	0.55714673	1794
CCAAAGTGCTAGGATTACAGGT	Chip	1054	4.3064132	4.0962029	4553
TCAGCCAGCCAGCTACAGGCTT	Chip	1054	5.2848206	1.757583	5726
GAGAGTTAGTTGAGCAGTCTGA	Chip	1057	4.0555487	0	1781
CCTGAGGATGCCAGCATGGGTG	Chip	1057	4.3358822	0	1796
TTCCATATCTGTTGCATATCAT	Chip	1059	4.0724583	4.4120793	381
GGATGTTGATTGAATGGCCATT	Chip	1059	6.981535	0	2176
GGCTCAAGTGATCCTCCT	Chip	1059	8.6334085	0	3107
GCCCTTACAGGGTGGTCAGCCA	Chip	1060	9.4540491	3.7158478E-2	2886
ACCATGTTGGCCAAGCTGGTCT	Chip	1061	10.752426	0	2147
AGAGGAAGTAATCAGGACCTGC	Chip	1063	5.6988263	0	7182
CAATCAATGCTGCTAGTTCCTT	Chip	1064	5.9849868	2.8310661	1965
CCTCCCCACAGCCCAGGAGACT	Chip	1065	4.541996	0	6539
AGTCCGGGGTCTGGACACCTGG	Chip	1066	4.1382761	0	4551
ATGATGGCTAGGCTGGTTTTGA	Chip	1068	4.3558846	3.1461418	3317
CCCCGTGTTTAGCATATCAT	Chip	1069.5	4.0893412	0.18084149	6003
AGTGTTGTCAAACGGCTCAGCA	Chip	1070.5	10.399335	0	2564
TCACATCCTCTCCCAACATG	Chip	1072	4.818759	1.6717633	5131
GTAAAAAGGCCAAGCCCTTGTG	Chip	1074	11.836436	0	1483

CCCAGGGGTTCAAGGCTGCAGT	Chip	1033	4.0216489	6.0328941	7918
CTTGTCTGCTATAAAAATCCAG	Chip	1036	4.1930809	0	8113
CATCTGGATGATTCTCCTG	Chip	1083.5	7.096612	0	8075
CTAGGTGATCCACTGCTCTCTT	Chip	1086	4.8540587	0	5027
CCTGCTCAACGAATATGGCGAT	Chip	1090.5	16.072001	0	5784
GAGACGTGGCCTTTGCCTGAGC	Chip	1092	6.8065529	0	7338
AGGCTATTTCCACTCTTCTCAT	Chip	1092	11.572475	0	1673
CAGAGCTGTCCAAACCCTGACA	Chip	1104.5	4.6639729	0.53870815	2095
CATGGGGCCCATGTGCTCCAAG	Chip	1105	4.2067757	1.293996	891
TGGCCGGCCACCTCCAGGGTTG	Chip	1107	5.9425497	0	7374
GTTGGCTATGAGAGCTTTAGTG	Chip	1110	8.4109449	0	1558
TCTCATTCTTCAGTGGCTTTGT	Chip	1115	4.7267513	0	7437
CAGAGCTGTCCAAACCCTGAC	Chip	1115.5	4.5837574	0	1708
CGGCCAAGCCGGGGCCCCGAAG	Chip	1115.5	5.9242396	0	7404
GCCTATGTCTTCAAATCAT	Chip	1116	6.1808176	0	3720
TTTCCCAGGCTGGAATGCAGTG	Chip	1117	4.3676271	5.109436	559
GATGGTGCAGGTGAAGTGCTGG	Chip	1117.5	23.311127	0	483
CTGGCAAGAAATATATATCTTA	Chip	1119	5.1329703	0.56972069	6654
AGGACCTGTAATCCCAGCACTT	Chip	1119.5	4.0140038	5.6218853	269
TGCCACCTGTACATGCTATCTG	Chip	1121.5	4.0724583	0	7617
GGAGTGCAATGGCGTGATCTCA	Chip	1123	4.2392659	5.4389768	5760
AGCCAGGGACGCTGCAGGCTAC	Chip	1124	4.8854122	1.5954714	1043
TGAAGGGGTGGCAGTGTGCTT	Chip	1126	13.134897	0	6422
TCCCCATTCCTCTCGGTGGTGG	Chip	1126.5	5.5540628	0	443
GCTAAGGGATAGGCTGCCTCCT	Chip	1127.5	12.931028	0	4010
TCTTCCTGGATGGGGGTTGATG	Chip	1128	8.9799547	0.79356724	977
CCGAGGCTGGAGTGCAGTGGCG	Chip	1129	4.6293564	7.4294724	7855
AATTTCTGCTGAGCACTGGGCC	Chip	1131	4.3391557	0	1991
AAGTGCTTCCATGTTTGAGTGT	Chip	1132	8.6608925	1.2182401	4641
GGGCATGGTGGCAGGCACCTGT	Chip	1136	14.535069	0	7986
TCTCTAGTCTCCTTTAACCTGA	Chip	1148	5.2546234	2.501446	6395
CGTGTAGCATGCGCCACCACCA	Chip	1152	7.0432887	0	1625
GACGGAGCTGGTTGCTGCGGCT	Chip	1153	20.242882	0	5628
AGTCTTCCCAGAGGAGGTGCCA	Chip	1153.5	9.2534456	0	945
AGGCTGGAGTGCAGTTGCATGA	Chip	1154	4.7976661	6.3405333	7994
GTACACTCCCCCTGTGAAGTTG	Chip	1154	24.610518	0	7047
TGTCCTGCCCAAGGTCACATAC	Chip	1156	5.5718279	0	5285
TGTAGGGCCTAGGGGTATGGAT	Chip	1157.5	7.6419687	0.25976887	6952
TCACCAGGCTAGAGTGCAGTGG	Chip	1159.5	4.8244257	6.5572648	6139
ATTGCACATCTGCACTACAGCC	Chip	1161	4.8118982	4.7992501E-2	4170
TGTACCGCAAATGCTGCTGCCT	Chip	1161	17.115875	0	4203
CAACATGGCGAAACCCCATCTC	Chip	1164	5.4955945	0	2105
GCCCAGCACCTCTCTCAGGGTT	Chip	1164.5	10.325441	0	3587
GCCCTGTGCAGGTGTGCAGCAG	Chip	1165	7.3230996	0	4409
CAGGAGTTTTAAATCTAGCATG	Chip	1165.5	18.803524	0	5357
TCTAAACTTGTAAACAAGCATA	Chip	1166	4.7118134	0.48687607	637
TCGACCTGCTGGGCTCGGGCT	Chip	1095	13.306955	0	2455
TTTCTTGGTCTTCCCGACCTGG	Chip	1098.5	4.0137076	0	3818
CACCCTCAAGCAGTGGCACGTG	Chip	1099.5	4.9113712	0	6541
CTGTAACCTCCTCTTTCCATTC	Chip	1099.5	5.5274715	0	1308

TGTATATACACACTCCCATGTT	Chip	1101	8.5892859	0	2582
CTCCGGGTAGCTGAGGCCCTGG	Chip	1140	4.6958904	3.793005	4115
GGCGCTCAGTGTTGCCCCAGAG	Chip	1142	6.097331	0	8051
CCTACCTGGGGCAGGCCTCGGG	Chip	1146	13.389938	0	4720
TCGCCCCGAGGCAGCCCTATGC	Chip	1168	7.6661062	0	5257
TTGCTCAGTGGCAGGGCTGGTA	Chip	1170	4.6446824	0	2869
ATCAAGAGCACAGTGCTGGCAT	Chip	1172	4.3064132	2.099376	2599
CTGCAAGCTACCCCTAGCATCA	Chip	1187	5.359941	7.49787	5126
TGGGAGGCCAAGGCAGGCGGAT	Chip	1193	4.9847255	7.2392049	3889
GGAGGAGCATGAGAGGGTAGTG	Chip	1193	31.27063	0	667
GAGCTCATCCCCATGGTCCGTC	Chip	1196	5.1633644	0.50441122	7471
GGTTGTAGTTGGAGGTTGTATA	Chip	1196	5.359941	0	1277
CATCCAGGCTGGAGTACAGTGG	Chip	1197.5	5.0059147	6.9278154	7521
TCCAGCTCTGCTGTGCGCCGGT	Chip	1200	9.279376	0	3798
GTAATATGTGCTGAGTCCT	Chip	1202	4.4296627	8.1321344	626
CTCTGGCAATTGCTGCTGACTC	Chip	1202.5	7.9471478	0	7180
CCTCCAACCATAGGTCCAGGGG	Chip	1203.5	8.3319702	0	6317
CCTGTCATCCCAGCATTTTG	Chip	1205	4.6656466	0	3228
CAAAGGGAAAAGCCATGTGGGC	Chip	1205.5	9.0012436	0	1930
CATGAAATTGTATTGGCCTCAA	Chip	1209	7.7022095	1.5365099	6133
CTGAGGCAGGCAGATCACTTGA	Chip	1210	4.8558879	3.7993965	6067
CTGGGAGGTGGAGGTTGCATTG	Chip	1213	9.390811	0	3857
TTTGGGCAGGCTTTTCCCTAGA	Chip	1218	10.846725	0	2057
TCCGGGAGGCAGAGGTTGCAGT	Chip	1221	4.4037938	7.4545732	3674
TGCTATGTCGAAAGGGCCATTA	Chip	1198	5.2848206	2.3428149	4666
GCTCCAGAATTCTAGTC	Chip	1223	4.8854122	1.4486885	4032
TTCTCCTACTTAAGGCCTTCCA	Chip	1228.5	14.512917	0	972
ATCGATCCCGCGTAAGGCCCCG	Chip	1231	5.1023388	1.2662603	2011
CAGGAACAGGGTGTCCTGGCAG	Chip	1232	9.008337	0	7655
GTGCTGTTTGGGAGAAGGTTCT	Chip	1235	6.2430058	0	7293
GGCTCTGTAAGTGTTGCAGGTA	Chip	1237	4.372324	0	2589
TGGGTCAGAGGGAAAGTGTAT	Chip	1240	5.4864416	4.4304075	4614
AGTCCAGGCATTCCAGCCATTC	Chip	1241	8.3715305	0	6703
GACCAGATCCCTTACCAGCT	Chip	1242	5.1947989	0	3391
TCCCAAGTAGATGGGAATACAG	Chip	1249	5.5675011	0	6551
CCCAGCAGGTCGGTGCTGCCTG	Chip	1251.5	5.0099111	0	8004
GAGGTGGCTGCTTGCTGGGAAA	Chip	1252	29.124226	0	5728
TGCTGGAAATTGTTCTAGGA	Chip	1252.5	15.828433	0	430
GCGGCCTGCGCTGCTCCCGACG	Chip	1256.5	6.7869315	0	7534
CAAGACTTCACCGCTCTGTGCT	Chip	1260	4.5691152	0	5375
TACTATGGTTATTATCCCTCTCC	Chip	1264	4.0216489	1.9981372	7280
CTGGCTTTTTTCCCATTATGCA	Chip	1266	6.4070868	0	2486
GCGTGTCCCCGCGTCTC	Chip	1266	7.5326686	0	7024
CTGAAGGATGTGTGGTGGGAGT	Chip	1268	4.7515168	3.1249597	4872
GATATGGAAGGCCATGCC	Chip	1268	8.8297272	0.48396423	3193
CCAGGCTGGAGTATAGTGGCGC	Chip	1270	4.4945917	7.4746661	3449
ACCCTGCTTTATGCCGTCCTCT	Chip	1273	7.5590324	0	2376
TGATATGTCCCTCGACATCAGG	Chip	1273.5	4.8226123	7.3988724	7842
CCCAAAAGTTCTGAGATGGCT	Chip	1275.5	10.201685	0	5422
TTGGGCAAATCACTAACGTCTCC	Chip	1276	9.4896584	0	648

GCCCATTTTTAGTAGATTTAGT	Chip	1277	7.2731838	1.3640915	3513
TCACTGCACTTCAGGCTTTCTC	Chip	1280	5.9144082	0	4828
GGAGTGCAGTGGCGTGAGCTCG	Chip	1283.5	4.7879038	3.6301775	1057
AACACTGCCTACACTTTATGAA	Chip	1284	5.4590769	0	1923
GGCTGCCTTCCCTGAGCCCCGG	Chip	1284.5	8.5892859	0.54547572	772
AGCAGAGTGCCCATCCCGGA	Chip	1287	5.9567142	7.4900131	3220
CTTGGGAGGCAGAGGTTGCAGT	Chip	1287.5	5.3808784	8.0099583	7083
TTTGAAGCCATGTCAATAGTTT	Chip	1288	5.1176653	8.6816092	869
AAGGAGTCTGGGCCATTCAGAG	Chip	1290	4.8932362	0	7914
AGCTGGAATTACAGGAGCCCAT	Chip	1223	17.16337	0	1400
TTCCTCCAGCCATGATTGTAAA	Chip	1226	9.0859766	1.2263082	5164
GCTGTGGAAGTCTTTATA	Chip	1228	5.9354606	0.15779255	2120
TCATGGGGCCACAGCTGCCAGC	Chip	1294.5	12.411313	0	856
TACCATCCAAGCTGGTTTG	Chip	1295	5.434535	7.9920983	8053
AGTGTGTTGTAGGCTCAAATGG	Chip	1296.5	5.0562248	4.8389935	4175
GAGCCTCGTGGCGGCCACTGCG	Chip	1312	9.9640303	0	7286
TCGCGCCCCCAAGCGTCATTGG	Chip	1314	9.0965214	1.7637211	6420
TTTTCCTTCATATCCCTTATGT	Chip	1319.5	10.305674	0	3604
GACAGGCTTCCACTATGTTGCC	Chip	1321	5.3749018	6.195621	3823
CGGAGGTTGAGGCTGCAGTGAG	Chip	1322.5	4.7339053	5.850657	6887
AGATGCTGCTCCACAGGCCAGG	Chip	1327	7.0328341	0	5359
TGCTGGTACCGCGCCTCCGCCA	Chip	1330	11.998149	0	3979
TGGTTAACTTCTGAGCAGGCTG	Chip	1338	4.0301342	2.5747242	4247
AGCCTGGGCCCTGCCTCTTCTC	Chip	1338	21.508947	0	5166
GTGGGCATCACCAGGGCCTCCA	Chip	1305	4.6559782	1.3485987	6123
TCGAAGGCCTCTTGCTCCTCGA	Chip	1306	5.0408092	4.6041131	6035
CTGAGGCAGGAGAGTTGCTTGA	Chip	1306.5	13.451077	0	7811
GCCTGCAGGGCCTGGGCCTACC	Chip	1339.5	4.2067757	2.7461035	4570
CACCTAGGGTTTCGCCTTTCTT	Chip	1351	15.235478	0	2596
GTGTTTGGTCAGACGTCCGGGG	Chip	1353	13.306586	0	8012
AGGCCGAGGCGGGCGGATCACC	Chip	1354	5.2067318	8.9456701	2641
TACCATGCTCTGCATCTCACAA	Chip	1357	4.5191474	5.9251785	6839
TGTCCAGATCAATGCCCACATG	Chip	1308.5	4.5347557	0	7987
CCCGACCTCGCAAAGCGCACTC	Chip	1312	6.3757839	0.11276147	6582
AGTGGGTGTAGTCTTCCTCCTG	Chip	1362	6.5083675	0	2500
CCCTCTGCATACAGGCGAGGAG	Chip	1363	11.684633	0	5508
CCCTGGAGGTTGAGGCTGCAGT	Chip	1366	4.2553997	5.5404139	4388
TCGGGCTGCTCGCTGCGGAACT	Chip	1366	9.8098183	0	2122
TGGCCTTGAGAGATCAAAAGGT	Chip	1368	4.743588	0	691
CTGGGAGGCAGAGGTTGTAGTG	Chip	1370	4.1524282	5.7353191	7711
ACTCTGCGGAGGCCCCAG	Chip	1370	6.9943829	0	6042
TGTCCCCACCTAAATCTTATCT	Chip	1372.5	7.1852641	0	4552
CTGCCAGTGTGCTCTCCG	Chip	1373	5.9488397	0	7149
GTCTCGGACTCCTGATCTCAGG	Chip	1380	4.1414785	3.9894354	114
CCGGGAGGCAGAGGTTGCAGTG	Chip	1381	4.9182892	7.8679495	7712
GTGCCGACGCTCCAGCACCATCC	Chip	1384	5.1635141	3.8417749	2478
GTGCGGGCCTGGGGGTTTCTCT	Chip	1384	18.114849	0	3598
ACCCAGGCTGGCGTGCAGTGGC	Chip	1413.5	5.045722	6.4478707	5104
AGTGGCGTCCTAGGAAAGGAGG	Chip	1414	4.1230264	6.3407669	7692
TAGAGCTCTCCTTCCTCTGTGG	Chip	1417	5.2848206	0.87858063	7229

CACCAGGAGGACAGGCCCCTAC	Chip	1419	13.13129	0	8018
GCAGAGTGCTGTCGTACGCCCC	Chip	1421	4.527245	1.0200601	7165
TCACTGCACTAGGTAATGCCAC	Chip	1425.5	10.130198	0	3645
TCCGATGCTTCCAGGGCCACCT	Chip	1426.5	4.9516306	0	5809
TAGCCCTTGATGCTGCGGCCAG	Chip	1434.5	21.951159	0	1412
GACCTGGTCCTTGTACTTTGAA	Chip	1436	4.3488479	0	4489
CTGCTGCCGGAGACTCGTC	Chip	1437	4.8540587	2.4149714	4229
CCCATGCACCCTCTAAGAAGGA	Chip	1438.5	4.0893412	1.2592272	3461
CCACTGTGCCCAGCCTCATGGG	Chip	1439.5	5.8070397	0.48357451	7531
ACCCTGCTTTATGCCGTCCTC	Chip	1439.5	7.5649986	0	6708
CCCACGTCGAACTTGCTCCAGA	Chip	1441	5.367424	0	5065
TCTTTGGGCCGACACTCGTCAA	Chip	1441	19.545538	0	1518
CTCCCAGCCTTCGCCAGTCTGA	Chip	1442	9.3773403	0	6102
AGGCCAGCCTGCCCAAAGCTGC	Chip	1444	6.8652005	1.3340253	475
AGGGTGGCACTGGTGGCTCTAT	Chip	1448.5	15.814425	0	3334
GGGTCCAGTAGTTGGTGGCCGT	Chip	1450	4.3641071	5.6165838	7607
TTTCACCATCTTGGCCAGGCTG	Chip	1450.5	5.8872299	6.5283771	2728
GAGAAATATGGCTCAGTTCCAC	Chip	1451.5	5.3449593	6.0128675	5868
TAGATACCTGCTGGACCTCATT	Chip	1454	6.7387171	0	595
TCCTGGGGAGGGGCATGGC	Chip	1454.5	4.2763	1.1393887	1299
CGGGCAAGGCGAGACTAGGCCC	Chip	1455.5	7.4837284	0	3948
GAGAGAGCTCTGTGCCTGGGAT	Chip	1460	4.1398292	2.7307003	6905
GCCTGGCTTCGGAGCCGC	Chip	1460	4.5353365	2.3478167	4990
TTCTCCACCCACTCTTTTGTTG	Chip	1465.5	4.1733551	1.1209452	5717
AGCTGGTGTGCCAGTTCCAGTT	Chip	1466.5	6.2705288	0	4908
GAGGCCTCAGCCTGCCCTGAAC	Chip	1470.5	8.6883059	0	4760
ATCAGAGTAGTTGTTGCCCAGA	Chip	1471	5.5012255	7.6935115	4344
GAGGCTGAGGTTGCAGTGAGCC	Chip	1399	5.0199966	6.459177	777
GCGGTTTAGGCCAACCTCCCTG	Chip	1403	4.4819179	0	3281
TTTTTGGGTCCAGGCTGTATCT	Chip	1410	4.6210666	0	6468
TGTCTCTTTTCAAGCTACCCTT	Chip	1480.5	10.980006	0	4041
CATTCTGCGATCCTCAAGCACA	Chip	1481	4.0957041	9.367939	3534
AGGCTTACAGCAGCAGGC	Chip	1484	7.5204544	0	3336
TGCCTGCTGTATTCCAGAG	Chip	1491	5.1635141	7.662797	3503
CCCAGCGAGTTTGCCGGTGAAC	Chip	1491.5	11.314644	0.20919423	3557
CCTGACCAACGTGGTGAAACCC	Chip	1473	4.440289	5.3721399	8042
CTGCCCCCAGCCTGGGCTTCGA	Chip	1502	5.1329703	2.1353233	2868
TGTCCCTGCAAATAACAT	Chip	1509.5	5.3898416	8.1098919	4499
GCGACTGTACAGAATTGCCCCT	Chip	1510.5	4.7910733	0	5071
GACTGTGGGGAAGCAGATGCCA	Chip	1511	7.0838871	0	7066
TTGTGCTTGCCCTGGAGGTGCG	Chip	1512	14.006866	0	3520
AAAGTGCTGGGATTACAGGTGT	Chip	1516	5.4616389	13.160688	2968
TAGCTGAATTGTGGGAGACCTA	Chip	1518.5	16.595257	0	3728
GGGAGTGGGTTTGGCCTAGGCC	Chip	1525	6.2015877	0	5640
CTGCGTGGTAGGACTCAGTTCT	Chip	1526	10.815386	1.3908418	1946
CGGCTGGGTTCGGCTGCAGGCC	Chip	1527	5.6272283	0	2275
AGTGCTATCGAGTTCTAATGCT	Chip	1529	16.626472	0	1560
TCAGTGCACCCAATTCTCTCCA	Chip	1529.5	9.8785877	0	428
CCAGCAGCCACCTTCTCGAAAT	Chip	1530	7.9632921	0	6291
ACTCCACACCACGGGGGCCGCC	Chip	1533	4.6035237	0	4308

AAGTCCAGGTCCTCATTCCATC	Chip	1540.5	4.019371	0.11170638	498
GGAGTGCAGTGGTGGGATCTCA	Chip	1541	5.5753407	8.2118359	2002
CTGGCAGATAGTAAGTGATCAA	Chip	1553.5	4.0555487	0	6938
TTCACTGGTCCTTTATAGGAAC	Chip	1556.5	4.4303179	5.0737081	4213
CAGGAGGTTGAGGGTGCAGTGA	Chip	1559	5.1060648	7.4941492	1503
TTGTCCTTCTTCATTCAGTCCC	Chip	1564	4.1307983	5.7667861	1467
TGACCTCCTGGGCTCAAGCC	Chip	1564.5	15.357349	0	1167
GACTACAGGTGTGTGCCACCAT	Chip	1565.5	4.6719613	4.2952833	7244
AGCCACCACCACTGAAAGGTTA	Chip	1567	5.0253716	0	4761
TCAGCCTGCTCCAAGTGCTGCC	Chip	1568	12.860962	0	3558
CCTCATTCTCGCGTGTGTTTCT	Chip	1578.5	5.1122966	0	2091
GCAGGCGGAGGTTGCAGTGAGC	Chip	1579	4.3141651	8.2424784	5063
GGCTGCCTTCTGCTCATCT	Chip	1579	5.328373	0	2071
TGGGGTCAGCAGGCCTGGCCTG	Chip	1581	7.7980194	0	6480
TCCTGCCAGGAGATGGTAGCCA	Chip	1584	12.534106	0	2088
AGGGTCCTGGGTGCAGTTGCTT	Chip	1586	6.5595541	0	7693
GGCGGAGCTTGCAGTGAGCCGA	Chip	1587	4.3907022	2.4575887	3787
ACTTACCAGAGAGGATCCGCCC	Chip	1587	5.1329703	1.094794	2757
TACCCAAGGCCCTTTCAATTTC	Chip	1589	8.489337	0	2986
TCACTTCGTAAACCCCTCCCAT	Chip	1550	13.593632	0	6867
GTATGGCACTATCCTCTCTGAT	Chip	1571	24.833906	0	4327
CAGGCCCTGTGCTGGGTGATGT	Chip	1601.5	4.6276236	0	1275
TACGGTCAGTCCGTGCCCCAAG	Chip	1602	9.7207422	0	3755
CTCTGAGCTGCCTTTTGAGCTT	Chip	1602.5	4.3898053	5.8146801	447
CGCCCAGGCTGGAGAGCAGTGG	Chip	1602.5	5.2608914	6.5835171	5998
CATGCCTGCCTGGTGGGCGTGG	Chip	1603	4.7668376	0	7402
CACTCTCACATGCCCTGTCAGT	Chip	1605	5.8743162	0	1357
GGGTCCCACTGCCCGTCTG	Chip	1595	10.438149	0	3859
AAGTGCTGGGATTATAGGCATG	Chip	1598	4.0027814	6.5471692	5406
TGGTTGGATGGCTCTTGTGGCT	Chip	1607	4.778492	0.20456694	947
TGGCTCCTCACGTCCTCAGAGC	Chip	1612	5.3898416	4.4133153	5444
CTGAGCTCAAGCGATCCTCCCA	Chip	1617	17.222479	1.5567338	4058
CTCCTCGTAACTCTGTGGTGGGT	Chip	1619	4.0893412	3.654083	6909
TGCGGGCGTTCGTTACCACTTT	Chip	1630	8.985281	0.38893801	2664
TACTGTGTGCCCAGCCGAGCTG	Chip	1632	5.7854853	4.7016063	687
GTCCCAAACTCCTGACCTCAGG	Chip	1638	4.5023069	7.1563048	3847
TGTTCCGACCGTGGGGTTTGAT	Chip	1640	6.429172	0.97111171	696
TTGGAATGCACACTGAGCCTGC	Chip	1641	5.4196582	4.3278909	4024
CCTACTCTGAGCGCCTCCGCAT	Chip	1642.5	9.0701408	0	6338
CCCGGAGGCAGAGGTTGCAGTG	Chip	1643.5	5.8650842	6.6221547	4488
GTCGATCACCTCGTCCTCCGTG	Chip	1646.5	6.641264	0	1036
CAGGCTGGAGTTCAGTGGTGTG	Chip	1648.5	4.3088479	8.9180403	3134
ATTGTGTCCTCATTGACCTTCA	Chip	1653	4.2317729	3.5594997	812
TGTCCTTATCTCCAAACAATCA	Chip	1654	4.2171164	8.9267464	6838
ACACAGAGCCAAACCATATCAC	Chip	1680	13.610887	0	4075
AAAAGGGACGACAACAGGCCAC	Chip	1681	5.1176653	0	6798
GCTCTGAGTCACACTGCCCTGT	Chip	1683	5.226552	0	1556
ACAGGATCGCCCTGTTGCCCAG	Chip	1683.5	4.9010544	0	7758
TTAGGCCTTTGATTGGGGTGCT	Chip	1685.5	4.1420093	7.9094262	7449
TTGTCTTTTGTGGGAAATATGG	Chip	1686	9.2690115	1.0731497	7843

TGCCCAGAGCCTGAGAGGATTA	Chip	1690.5	7.2606683	0	4109
CATGTGTGTCTCCACCAGCTGC	Chip	1697.5	22.671108	0.19794025	5242
TGATCAGCATCTTCCCAGCTCG	Chip	1698	5.6260681	4.4475961	8104
ATCTCAGTTCAGGCTCCACTGT	Chip	1699.5	12.996984	0	807
GGCTGTGTGGCCGTGGGCTCTA	Chip	1700	4.3887382	4.3097105	1039
TAGCTGGGACTACTGGCCCTGC	Chip	1706	12.916316	1.5355051	5859
ACACAGGGCTGCGCCTGACCCC	Chip	1707	7.7022095	0	2010
TGAGCTCAAGCAATTCACCCGC	Chip	1707	13.724072	0	5592
CTTATCAGATTATCTGGGCTGT	Chip	1707.5	8.2751999	0	6172
ATGTCATGAGGCTAGCCCCCAA	Chip	1710	7.9632921	0	8009
CCTGTCATATACATACCTCCTC	Chip	1712	4.1733551	4.783987	5607
ATCGGCAAGCCCCACACCGTCC	Chip	1713	4.0142264	9.0132332	1087
TCTGCAACATTCCTCTCCCCAC	Chip	1721	6.2299123	0	2222
CCACCAGCTGCATATGCACGTA	Chip	1730	4.4214902	1.1879559	6943
CTCTGGAGTCATTGCTCCC	Chip	1730.5	7.3355422	0	4042
GAGTGCCTTCCCCATGCTTTGG	Chip	1731	5.1558862	1.9091915	3358
CAGGAAGGGGCTCACTCTGGCC	Chip	1734	6.2842641	0	6354
TGCTTATATTTCATTGGCCCAA	Chip	1737	5.1939707	0.85535181	2940
GGCGCCCCCTTCAAACAGAGCA	Chip	1745	4.7277126	8.7167349	5245
ACGTGCTGGAGAAGAGCTCGCC	Chip	1754	4.0640068	0.98060691	1541
TTGTGGGATCTCCCTGTTGCTC	Chip	1754	5.2395482	0	3715
TGGTCTGCTGAACAGCCGTATC	Chip	1757	4.743588	1.0271198	1855
CCGAGCTGTGGTCTCTTTTACG	Chip	1759	4.1230264	8.2524004	6239
ACAGTCCAGCCTAGTATGTATA	Chip	1760	5.992043	1.5357794	7694
TCTTGGGCAGCTTGCTCGCCCC	Chip	1661	7.7022095	0	2289
AGCTTTGGTTGCCATGATCTGA	Chip	1665	5.5821729	10.27639	3258
CACTGCAGCCTCGCTCTCCTGA	Chip	1676.5	5.3898416	0	5252
CTGGGGTCCTTGCCATGTGTCA	Chip	1677	11.498288	0	6809
TGACAATGAGGCCCTCCACAAA	Chip	1679	5.1023388	2.1864455	1150
GGCTCTTCCGCCACCAGCCACA	Chip	1624	4.4541421	1.0276202	6374
CTTGCTTTCAGTCTCGGCCTCA	Chip	1763	4.0555487	1.144424	4424
CTATTTCTCATAGTTCAGGTCTT	Chip	1767	4.5998492	5.3045797	5073
TGGCCACCACCAATACTTGCCT	Chip	1777	4.5837574	0.96471441	1591
TGGCTCTGTCGAAGGCACA	Chip	1778	4.1314311	4.1464405	4677
CCATGAATTCACTCCATGCTAG	Chip	1780.5	7.6721315	0.20065525	4028
CGGAGTCTTGCTATGTTGCCCA	Chip	1781	5.2067318	5.238801	2219
GGTAGTCGGCCTTGCCCTGGGC	Chip	1782	5.1635141	8.7292385	7953
TGAGATGGAGTCTCGCTCTGTT	Chip	1785	5.1520457	7.9560995	604
TTGCGCGCGGCTAGGTCTCGGT	Chip	1768.5	8.527442	0	6145
TCTCTATTTGCCTAGGCTTGTG	Chip	1775	4.0386124	5.2510257	2607
CAGTGCCAGCTGCTTGGCCTAC	Chip	1791.5	14.129085	0	1648
AAAATTGCTCTGCAGTCCCC	Chip	1798	5.1055784	0	3905
CTCCTCTTTAGCCCCAGCTGGA	Chip	1799	4.2898717	8.4259157	7592
GGCCTCCCGGACCGCAGCGCC	Chip	1805	4.6958904	2.6645198	1598
CCCGGGAGGCAGAGGTTGCAGT	Chip	1794	5.9571199	9.9902372	7763
TCACCGTCGGGGGTCGCTGTCT	Chip	1810	5.033093	2.9273572	6394
GGTTCAGAGCCTGCCCAGTATA	Chip	1813	10.913574	0	7126
GTCCTGGGGATTATAGAGTGTT	Chip	1823	6.0381451	0.53414297	722
TGGGATGCTCAGGGCCTGGAGC	Chip	1824	8.0682802	0.78988832	1505
AATCCCTCCCCAGGCAAGTCCT	Chip	1827	4.7700205	4.2900171E-2	6540

GTTGGTCCTTTGAGCAAGATCC	Chip	1828	5.0426106	0	1908
CCAGGAGGCGGAGGTTGCAGCG	Chip	1831	4.9563489	9.9608593	7048
AACCCGGGAGGCGGAGGTTGTG	Chip	1833	5.103756	10.290462	7934
GCCCATAGTCTCTTTCTTTCTT	Chip	1838	10.300968	0	4961
GACAGCTCCAGCTCCTCCAGGC	Chip	1845	4.1900787	8.3998461	5092
GTATGTGAGGTTGGTTTCCAGG	Chip	1848	15.93024	0	7718
TTTCACTCAGCTCTCATTGTCT	Chip	1852	5.5248971	7.513772	5411
CCAGGTTGGAGTTCAGTGGCGC	Chip	1854.5	4.1551623	4.9337268	4246
CAGGAGCTCAGATGACATCTCA	Chip	1856	4.9010544	10.314	7857
GGGGTCTTGGAACAGGTGGCCCT	Chip	1856	5.8785758	0	4982
CCCCTCTTGGCATTGAGTGCCA	Chip	1860.5	4.9355788	0	453
CTGAGCCTCCTGCTTCTATTTC	Chip	1864	5.9849868	3.7265418	5270
TGGTGGCTCACGTCTGTAATCT	Chip	1871	25.099676	0	3670
ACAATGCTCCCTGTAGTCAGGA	Chip	1874	4.6958904	7.40031	5896
GGGTGTGTGCAGGGCCTGGT	Chip	1891	5.4895329	0	5967
ATGGGGTGAGTGACGCCCTC	Chip	1899	5.8571658	1.7462343	1126
TCGCTCAGGCAGGAGTGCAGTG	Chip	1902	5.7879028	8.7315207	27
CCTGGCCGACATGGTGAAACGC	Chip	1905	9.3362026	0	3556
TTCAACAGACCCTTCTTTCTTT	Chip	1906.5	5.6843143	2.0226388	6431
TCACTTCCCAGACGGGGTGGCA	Chip	1907	4.2122374	7.5382385	694
GGCCATTTGCTTTATTCACTTC	Chip	1907	4.3014822	8.9858618	7247
ACTGTGTGCCAGGCGCTGGTCT	Chip	1908	4.0770178	0	5878
GCCCAGGAGGAGAGGCTGCAGT	Chip	1922	4.5738077	5.7069306	4395
CTCGAGAGATCCTCTTGCCACC	Chip	1926	7.0200324	1.6254758	5914
TCACTGCGCTTCAGCCTGGGTG	Chip	1929.5	5.5291867	1.1913716	3471
CTCAGATCTTTCCCATTTTCCC	Chip	1937	4.5676417	6.4788637	6853
TCTTATACCCCTAAACTGCAGC	Chip	1938	4.9789224	0.47636697	5387
TCCAGGGCCATCTCCATGAGGC	Chip	1948	5.4790416	9.0826721	5633
GTTTACTTGTGCCTTGGCTTAA	Chip	1948.5	23.074245	0	5615
GCTGTCTCATACAAGGCCCTGC	Chip	1952.5	5.1329703	1.1484865	596
TGGTAGGTACTGGCTTCAGGC	Chip	1959	5.7638865	10.948694	4635
TGCCTAGGCTGGAGTGTAGTGG	Chip	1960	18.811989	0	1630
TGCCGCAAGTACTGCTGCCTGT	Chip	1966.5	5.8571658	3.7118392	2947
TTTGGTGTTCCGGTCATTGCTG	Chip	1967	4.1357851	5.2781134	2161
CTGCCCGCACCATCCCCGGGCT	Chip	1967	5.5675011	7.4003267	3490
AAGCCTGGCACATTGGAGTCTG	Chip	1972	23.70438	0	3349
TTCTTCAGCCTACCTTGACCTC	Chip	1982	4.5595746	0.49319306	6851
TGATCTCGTGATCTACCCGCCT	Chip	1982	5.9927278	6.810081	30
CCTGCACAGCCGGACCCCTGCT	Chip	1988	5.7277908	0	6533
TAGAGTGTCATAACAGTGCCCA	Chip	1991	9.5302086	1.9559761	1846
TTCGCCCAGCTCCAGGCTGGCC	Chip	1992	6.3293457	0	4444
CACGGCCACTGCAGCACCCCAG	Chip	1913.5	5.9849868	0.27124041	6093
TAGATTATCCCTGATTTGTCCA	Chip	1914	4.1926575	0	3368
GTCTCCACTGGGGGTTAACC	Chip	1997	10.673612	0	5139
CCCTGCCTTGTCTGGGCTAGGT	Chip	2002	4.0046587	9.0806446	1273
CTCATTGCCCAGATCCCCACAG	Chip	2016	4.838347	8.3423147	2388
CCGTGGGGGGCCGTCGTCCCTG	Chip	2017	4.7752681	3.6123621	6214
GCGTCTCATCCTCCCGCTAATT	Chip	2019	4.072968	2.8117723	1383
CCTGTGGTGCCAGATCGCCAG	Chip	2019	4.3676271	0.76802272	2175
GGGGTCTGGGCTTAGCTGGAAT	Chip	2025.5	12.380392	0	1356

CAAAGTGCTGGGATTACAGGCT	Chip	2028	5.1953826	10.857911	3663
ATGCCCCAGTGTGTGCTTCCTT	Chip	2031	17.004122	0	7137
AAGGGCCTGCCAGCTCTTCATG	Chip	2031.5	13.091538	1.1311569	5553
GAGGTGGGCGGATCACAAGGTC	Chip	2041	5.9412212	9.3532887	3999
CTGGGGTAGGAGGCAGCTGTGC	Chip	2041.5	4.1482224	0.28055555	3971
CTGGGCTCAAGTGATCCACCCA	Chip	2046	4.3300858	5.4814286	8138
GCCTGGATTCCTTGTTTCTCAG	Chip	2049	4.3417811	7.2988648	7480
TCTCTCTGCAGCCCGGGACACT	Chip	2050	4.9355788	0	2281
TTGGCCTGGCGCGGTGGCTCAC	Chip	2052	5.0408092	5.1451149	973
GGGCCCCAAGAACCTCCTCCTG	Chip	2056	8.5116291	1.1281486	1621
GAGCTGGGCCTGCGAGTGCTGC	Chip	2060.5	5.0099111	1.7965864	7880
TCTTGAGCTTTATCCAGTTTCT	Chip	2066.5	4.1145458	9.719533	6198
GCTGTCCAGCCCTTGTTCACCT	Chip	2068	9.5504265	0	668
AATAAACAAATCCTTCCTTCCC	Chip	2070	4.1082759	0.80227709	1593
CGCATGAGACCTGCCGGCCATC	Chip	2073	16.943785	0	4458
TGTCATAGTGTGGTAGCAGTGG	Chip	2076.5	17.239656	0	1513
ATTCTTGGATTTGGCTCTAGTG	Chip	2081	5.359941	9.4660416	3061
TAGTTTCATCTCCACCCTGCCC	Chip	2083	5.655231	0.15956412	4810
GTTGGCCAGGCTGGTCTCAATC	Chip	2090	9.4693241	0	1574
GCTCCTTTATTTTCTCTCGTGT	Chip	2092	4.9322701	6.8224359	920
CCCGGGAGGTGGAGCTTGCAGT	Chip	2094	5.0106125	8.1183786	8135
GGCCCGGTGACGTCACT	Chip	2095	6.9428978	0	5340
CATTCTGGACCAAGCTGGGTGC	Chip	2099	9.7008457	0.40787405	7059
TCTCCTGGAGCCCAGATGCTGG	Chip	2100.5	4.8226123	5.4119086	7179
GTGGCCCCAGGGCCCTGTCTGG	Chip	2103	4.3064132	5.4394917	6549
TGCCACCCCGGACCCCGAAGTG	Chip	2106	4.6232533	7.5721364	6993
GTTCCCACCATGCTGCACCCAT	Chip	2107	5.8285513	8.8833447	6184
AACTCCTCTCTGGTGGTTCGTC	Chip	2112	4.0128498	0	4605
CTGGGAGGCGGAGCTTGCAGTG	Chip	2035.5	5.6867909	7.8000135	7741
GCCAAGGCCCTGTCTGTTTTAC	Chip	2118	4.2000122	8.7488194	5165
CCCCCGGTTCCTGTTTGCAGAG	Chip	2118	20.762581	0	6679
AGGGAAGCAGCAGCCGCCTGTC	Chip	2129.5	4.2952938	0	5001
CGAGTGTCCCTACCATTTCCTA	Chip	2137.5	4.9944282	3.8092749	1234
GCCCAGCCACAGTCACTTTCAT	Chip	2139	4.7320642	8.6496077	5573
CACCTTGTGATCCACCCGCCTT	Chip	2139	5.5668392	4.7121377	282
CTCACCTTCCGGCTGCTCCCTG	Chip	2144	13.513897	0	7159
CGTCTGGCTTCTCCACGGTAAA	Chip	8462	5.8395977	11.586881	1512
GAGCGCCGCTCACCTCCCCTG	Chip	2146.5	6.9170618	0	7839
GGGCTGGGATTGCTTGCTGTGA	Chip	2148	14.562239	0	1729
AAAGTGCTGGGATTACAGGCGT	Chip	2149	5.4638057	13.107788	6208
CCGCCACCTCTAAGCTGGGTC	Chip	8413	8.866951	0.18543215	6816
AGTTCTCTTGCTTCAGCCTCCC	Chip	8418	11.501246	1.3339518	274
CTGGCCTAAAAATACAGAACAA	Chip	8784.5	8.013813	0	2976
GCCCCAAGTCCCTATGTTTCCA	Chip	8950	12.678107	1.0439761	762
GCAGGGAACTGGCTGGGCTTTC	Chip	9142.5	5.9037857	16.801399	93
GCTCCCACTGCTGTCCTGCCAT	Chip	9433	17.716768	1.6475885	2
TGTGGGTGGCATCGTCCTGGCC	Chip	9679.5	8.4513817	0.49652323	1812
GCTGGCCACAGATCCCCAGGGA	Chip	10408	33.552021	0	7579
AGCGGCTGGCGGAGGACACG	Chip	8764.5	5.8134389	21.684513	4945
CCCTCCCGGCGTGCTGGGCTCG	Chip	9059	16.644638	0	5789

AGCTGGAGATGAGTGACGTGCC	Chip	10661	16.698954	0.85748941	3793
CCGGTCTGTGTACTTGCTGGCC	Chip	10835	20.656384	0.65039492	680
AAAGATGTTGCTGCTCCGCCCT	Chip	10873	15.461	0	3748
CAGCCCCACACGGTCTAGCTCT	Chip	11400	15.806011	0	7629
CCTGGCCTTTGAACGCTAGACT	Chip	11406	7.2856851	0.75884587	3686
CCCCTCAGTTTGCTAGTATTTT	Chip	11735	24.905746	1.1986766	178
GACAAGCTCCCGGTGGCCCTCC	Chip	12851	18.126135	0	2459
GTACATCCCCAAAGCCACGCCC	Chip	12166	27.10388	0.65009803	5582
GCCAGCAGCTTCTTCTCATCCT	Chip	12277	9.6344414	0	1867
GCCCTCCTGAGCTAGCACGTGT	Chip	12521	13.062534	0	953
CCTGCTGGCTCTGTTGCTCGGC	Chip	13366.5	22.352903	0	1272
CCAGACTGCTTGCTTCCCAGCC	Chip	14958	21.881628	0	1675
GGAATCCTGCCAGCTCTGCCCC	Chip	13916	20.750246	2.1075698E-2	2965
GCCTGCCGCCTGGCTGAGAACTG	Chip	14243	18.883669	1.0151415	6189
CTCGCCCCTCTCAGCCCTGCAA	Chip	14248.5	19.352268	1.4588933	298
GCCTGTCCTCTTCCGCCTGTCT	Chip	14508	12.145576	1.6282115	205
AGCCCCTTGGTACTGTCCT	Chip	9378	18.433018	1.0831363	880
GCCTGGCCAACGTGGTGAAACC	Chip	18181.5	10.453645	0	5249
GGTTCTCAGCCTGAGCCGCCCC	Chip	18192	21.105703	1.4826102	347
TTGCTCTTGAAAATTGATGCTG	Chip	18285	23.095486	0.6942786	3763
CTTCCCTCTGCTCCTTGGTCCA	Chip	19594.5	19.400415	1.9364738	1882
TCTAGGTAGGCTGTGTGTGGAA	Chip	20581	39.322697	0	733
CGTCTCTGGCCCGGCCCCTGGG	Chip	21590	14.013508	0	3933
CTGGCCTAGACAGACCCTGATC	Chip	24673.5	34.411491	0	1603
CTGGAGGTGCTTCGCTGGCCAC	Chip	33822	24.338379	0	7447
GGCAATGAGCTTGACCTCCTGG	Chip	29694	11.99544	0	1529
CTGGCCAAGATGGTGAAACCCC	Chip	29538	10.824452	1.9062781	4452
CCCTTTAGCCCCTGCAGAGACT	Chip	39494	31.387457	0.54301858	895
GGGGTGCGGGCCCCATCTGGCT	Chip	49070	17.560888	0	7628
GCCCCGCGCCTGGCTCCAGGTG	Chip	56132	18.496397	0.1512371	7237
AGCAGCTTTCACCTCCCCGCCT	Chip	65518	14.003611	0	3537
CTGGCCTATCATAAGCATTTT	Chip	65516	15.111923	1.4583727	301
GCAGCCTGGGCAACAGAGTGAG	Chip	2157	4.5432754	10.740927	2233
GCTCCCCAAAAGCTCCAGGAAA	Chip	2161	6.0833526	0.0302024	1950
GCAACTGAACATGTGTGTGGCC	Chip	2167	6.7475801	0.27415401	1495
GTTGGCACTGAAAATGGCT	Chip	2169	7.5448685	0	6759
CAGGCCTCTTACCCTCTCT	Chip	2175	4.1754398	3.2060738	1746
CTCCTGGGAAAGGCTGGACACA	Chip	2176	4.3887382	5.3727546	4727
TAGGTGCAGTGGCTCATGCCTG	Chip	2177.5	4.5125771	11.198825	7044
CCTGCGCGTCTGGGTCTGTCTC	Chip	2182	4.1243076	0	4302
CCTGCCTATGAGACGTTTTGCC	Chip	2184	15.800399	0	3592
TCTGCCTTCTATCTTTTGTCTG	Chip	2195	4.2943249	5.856668	5198
AGTGAGCAAGTTGATAATGGCC	Chip	2206	14.006866	1.2831149	2101
CCAAAGTGCTGGGATTACAGGC	Chip	2212.5	5.0945106	7.6044312	4562
GCGCTGCGCCTCCTCTTCCGCA	Chip	2221	4.0475416	8.1211281	5031
GTGAGGCGAAGGTGCTGGCGCC	Chip	2222	5.5968246	2.6594312	5511
CAAAGTGCTGGGATTACAGGTG	Chip	2224	4.9705548	11.770996	7510
TACCACCATTTGCCTGCTGTAT	Chip	2224	5.3224468	6.6427116	4932
ACAGGCGATCCACCCGCCTCAG	Chip	2228	5.9650521	8.9491081	144
TCACATGTGTACAGTCCTCCCA	Chip	2233	4.2763724	1.8106569	1634

TCCGTGGGGCCTGTGGCTTCCG	Chip	2239.5	6.0677629	0	5469
GGAGGCTCTGACCATTTACCCA	Chip	2254	4.1900787	7.1273708	6995
TGCGCGCCAGCTCCCAGGTTCG	Chip	2256	5.0988479	6.3105674	2262
GGTGACCTCACCTGGTCCCACC	Chip	2256	9.0595703	0	2408
GGCCCTCTTTAGACAGAGTAGG	Chip	2246	8.1607409	0	3111
CGCGCCGTCGGGTCCAGCC	Chip	2247.5	4.7277126	7.7918286	3638
CCCACTGTTTCCCTGAGGCTCT	Chip	2266	4.8025331	8.1863604	4776
GTAGGCCATGGTGGTTGTCTCT	Chip	2289.5	4.7606225	9.7036562	1606
CTTCATCAGCTGGCTTACTGTT	Chip	2296.5	12.356884	0	1215
GCTGGGTGATTCATTTCCATAA	Chip	2300	4.1779046	0.39830375	1831
TCTCTCTTTTTTGAACCCGCTC	Chip	2311.5	4.0555487	1.0858992	5912
CCTGGGACTTGGTCTGGGGTTT	Chip	2313	5.9411697	0	2040
TTGTGGGGGCTGCCCTGTACGG	Chip	2313.5	21.251358	0	391
CTGGCCAGATGTTACGTCCAAT	Chip	2339.5	32.041363	0	7874
TACCCAGTGCCACCCTCTGAGG	Chip	2340.5	4.5757027	6.8743863	6230
ACCCGATGTTGGTGCTCTAGTA	Chip	2346	9.0436945	0	6880
CCTTTGATTTCCCCCGTCTCAG	Chip	2348	4.8108587	4.7235146	4951
CAGTTTCTTCCTCCCCCAGAGA	Chip	2348	5.7050447	0.71364939	1967
GGCCCTGGCAGCCACGAAAGCC	Chip	2349	4.256711	8.8494081	5777
GTTGAAATCCTAACCCCCTAGT	Chip	2349	5.7350197	6.0217838	813
GGGCTCTCCCACAACGTGCCAG	Chip	2349.5	4.1230264	5.3486781	6626
CTGCACCCTCAAACTCCTGGGC	Chip	2350.5	4.5978923	1.9378269	6217
GGGCAAGGAAACAGCCCCCA	Chip	2351	8.6663809	0	7290
GTGCCACTGCACTCTAGCCTAG	Chip	2315	5.0099111	5.8159242	3166
ATCCCCCTGTATCTGGAAGAAT	Chip	2318	5.7854853	3.7798862	765
GCCCCAGCCTCCCGAGTAGCTG	Chip	2330	5.0814857	9.9303665	1014
CCAGTTCCAGTGCTCACATCCA	Chip	2332.5	4.5615263	1.8066665	6633
CTGTCCTTCCAGCCGAAATCTA	Chip	2360	4.3559012	11.170581	6778
AGCCCTGGTTTGCAGCATTTGC	Chip	2361	4.9244747	1.5478942	7830
CCCTGCCAGCTCCCAGCA	Chip	2367.5	5.8455133	7.8306561	4757
CCTAGAGCCGCACCTCCTCCAC	Chip	2369	5.835712	4.0593348	6019
TTCTCCAGTGCGGTAGCCAT	Chip	2372	15.630626	0.20187679	918
TGTCTATTCCCCCACCTCCGTT	Chip	2379.5	4.5837574	3.2563431	5432
AAAACCTAAGCCAGTAGCTCCC	Chip	2386.5	5.209166	0.87618637	4233
CAAGTGATCCTCCCATCTTGGC	Chip	2388	5.3808784	7.4311776	5956
TTTCCCTTTAGCCTGAGAATCC	Chip	2392	5.359941	11.933125	6341
GGCCTCGGACTTCATCGTAG	Chip	2400	5.5675011	4.4705572	2727
GGAGCCTCTGGCAGGGGGCCA	Chip	2402	4.6396155	6.1019282	1372
TGGTTTTAGGGAATCAATCTAT	Chip	2404	7.678154	0.52072495	7421
CTCCCCTAGCCCGTTGGGAGGT	Chip	2405.5	6.669796	0	4160
CTCGCATGCCCTGCCTCATCCA	Chip	2410.5	7.3913541	0.29925746	7114
CTGTTCCCGGTGGCCGGGCCAG	Chip	2413.5	6.5077271	0.8903724	4981
GCCTCCTGTCCCAGGCTGAGGA	Chip	2413.5	9.8976374	0	2865
TCCTTTAAACAACCAGCTCTCA	Chip	2428	5.5528088	7.3969135	3101
GGGTGCTTTGGCTCACGCCTGT	Chip	2429	4.6753616	12.409147	3678
GGAGTTCCAGACCAGACTGGCC	Chip	2430	4.3969355	2.4696999	6754
TTCCAGCTAACTCACATCCCTT	Chip	2439	7.2324972	0.60095483	1302
ACGCCCAGACTCCCATACTTTG	Chip	2459	4.50102	4.1521502	7901
GAACTTGTGATCCGCCCACCTT	Chip	2483	4.4610376	7.0900927	304
TCCTTTGCTTCTGTCATTCTCC	Chip	2483	5.2079062	6.7577206E-2	620

TTGCTTGGGCTGGAGTGCAATG	Chip	2486	7.6339107	0	810
GAGGGTGGTGGCTTAAGGTGCT	Chip	2493	21.545008	0	6054
GCCCTCATGTACAGGCTGGA	Chip	2498	5.6915727	8.9956436	1447
CTGCCATGCCACTGTGACTGCA	Chip	2352.5	17.548986	0	7967
TGCCAGCTGCTTGTCCCCCACA	Chip	2506	12.651727	0	6621
TCCTGGCAAAGATGTTGGTGTT	Chip	2509	5.4560823	0	5814
GCCTATCTGTCAAATTTCTCTG	Chip	2514	9.5352669	0	2901
TAAGTCCCCCACTTGCCACAGG	Chip	2518.5	5.7638865	3.0076547	7132
TCTGACTCCCATATTCCACTTC	Chip	2525	30.392769	0	7387
TGGCGCGACGTGCCCCCTGCTT	Chip	2537.5	5.808301	1.0830367	3855
AGGCACCACATCTCCCTCCCC	Chip	2510.5	5.2200365	3.5559428	3190
CTTGCTACTATGCCTGGCTAAT	Chip	2555	17.740189	0	1421
GAAGTGTAGTCTTGAGCCCCCA	Chip	2564	9.4998102	0	736
TGAGCTTCCCTCCTGCACTACA	Chip	2569	4.6559782	11.27425	3865
CACCTGTAATCCCAGCACTTCA	Chip	2591	5.442101	10.425298	2200
GAGCCCCACCCTAGACATTCTG	Chip	2592	13.910081	0	3500
GCACTTCACCACTGTCCTGGTT	Chip	2592.5	4.2146778	0	7216
TTCAAATGATGGCAGTCCTGGC	Chip	2601	6.2539949	0	7036
TCACCTTGTGATCTCCCTGCCT	Chip	2602	5.3760271	0	5425
GGCGGTCTCAGCACCCTCTTGG	Chip	2606	4.6685424	0.3523702	4335
TTCCAGAGAGTTATTCCCCTGG	Chip	2607.5	4.6125126	0	6411
GCTCCCACCTTAACCTTCACAT	Chip	2577	9.839345	1.6405232	6215
CATTCTCAGTATCAGCCAGCCC	Chip	2579	12.640401	1.6748168	928
TGTGCCTGTTCCCACTTTGCCT	Chip	2611	5.0901771	2.5660698	6728
TGGTTGATGTGTCTGTTTTAGG	Chip	2612	4.3839817	0.81509507	2253
GACCTTGTGATCCACCTGTTTT	Chip	2612	4.8775668	12.335071	200
GGAGTTCACGATGTTGGCCAGG	Chip	2615	7.6359258	0	400
TCCTGCCTGGGGCCGCCTG	Chip	2616	4.7310023	10.146957	7875
GACTCGCTCCCTTTTGTCTTAT	Chip	2618	4.8540587	8.7134781	2385
GTGCTGGATGAAATAACTGGAA	Chip	2618	31.031715	0	3788
CCCTGGCAGTGCTCCTTTAGAC	Chip	2622	5.4874659	0	7899
CTTCCCACCATCTCCTG	Chip	2625	4.8619056	7.170155	5583
CTCTGTGGTGGAGTGGGTCACC	Chip	2634	6.3390269	1.0710925	1766
GGTCCCCCCATGGTGAGCACTG	Chip	2640	12.263632	0	4591
TAGATTCCATTGGCCCAGAGAA	Chip	2642.5	5.9990945	6.5212164	1442
TCCACCAAGCCGGGGCCACTTC	Chip	2648.5	4.7161036	4.8864894	5549
TGTGAGACTTTCTTTGGCCTCT	Chip	2660	7.0328341	0.18635188	1682
CTTCCTTCTCACTAGCAGCGCC	Chip	2665	5.1787534	2.627044	618
TTGTCCGTGGTGAGTTCGCATT	Chip	2678	5.3224468	5.8358331	478
GGGCACTCCTCTGGTCCAGCCC	Chip	2685	8.6773491	0	6613
GCTAGTGCAGGGAAATCTTTGG	Chip	2688	26.986755	0	831
CTGCACTGACTTCCCCGGCTGC	Chip	2702	4.0437126	7.0977674	7251
TCGCCCAGCTCATCTCCCACAA	Chip	2703.5	5.3652906	1.3689227	7726
TCCACAAGGCAGCTCCTCCAGG	Chip	2706	5.4716368	1.7482823	7085
GCCTGGACTGTTCTACCATTTT	Chip	2709.5	4.8429475	1.7205493	4566
CAGAGCCCCTCGTCTCCACCAC	Chip	2694	7.5265632	0.54361749	4103
GCCCTGGGCAAGGTTCTGGCCA	Chip	2714	5.1504555	0	7739
TGAGTGACCAGAAGTCCCCCTC	Chip	2715	6.7934761	1.1538888	2414
GCCCTGCCCTCTCGGCACTCGC	Chip	2717	5.5086098	11.520112	4992
CCATCACCCTAACTAGTG	Chip	2735.5	18.076384	0	7143

CATTCCTGGCCCGGGCGCCGTC	Chip	2736	4.0554576	10.724096	3142
TCCCAATAGCCTAAGAGCCTGG	Chip	2742.5	4.4703951	1.2259418	5247
CTTCTCGGGGTTCCCGCGCCCT	Chip	2766.5	4.3488479	3.1100295	1891
CTCTGAGTCCTGCACTCACCCG	Chip	2770	6.7869315	1.284364	192
ATCCTAGAATCAGCCCTTGCTG	Chip	2772	8.6334085	0	7706
GTGCCCAGCAGCAGCGTCCCCG	Chip	2773	10.263255	0	3699
CCTCTTCAGGCACTCGAAGGCC	Chip	2775.5	13.966924	0	7966
TATGTTTGGCCTGGCAATTTCA	Chip	2780	4.5881057	9.7094517	6931
GCTCATGACTGTAATCCCAGCA	Chip	2783.5	6.7136006	1.7869294	4367
GAGCCCAGGAGTTTGATGCTGC	Chip	2802	4.1153555	12.440318	2704
CTGTAATCCCAGCTACTCGGGA	Chip	2806	5.0527177	16.432554	4237
ACTCTTTCTGCCCACAGG	Chip	2806	5.5159893	5.3098421	8068
TGGCTATTCCTTGGACACA	Chip	2806	18.175655	0	1944
TCCTGGGATCAAGTGATCCTCC	Chip	2812	5.5412574	0	7259
TGTCCTCGTCCGCCTCGAACTC	Chip	2812.5	5.7277908	0	2138
CCCAGCTCTTCAAGTCACCCCC	Chip	2752.5	5.4642267	3.5884585	6799
CAAGGGTTTGCATTGGCTTT	Chip	2817.5	4.1292181	6.8459005	8100
GTGTCCCCACCCAAATCTCATC	Chip	2826	5.9052849	6.1014419	6949
GAGTGTTCCAGAAACTGGCCCT	Chip	2828	8.6828289	0	3379
GCAAGTGTCTGTCCCCTT	Chip	2829.5	5.2069716	4.7231493	538
CTCGCCCCGGCACAGTGTCCGT	Chip	2832	13.572888	0	3693
CTTCCTCCTCCATCTCGAAGGC	Chip	2834	4.6479778	8.16576	5745
CTGCAGCCTCCACTTTCTGGGC	Chip	2839	4.7054248	13.918253	81
TGTCCCCACCCAAATCTCATCT	Chip	2845.5	11.856786	0.60507727	2781
GGCCGCGGATTTTCCCGCTGGC	Chip	2846	7.2294455	0	1025
TGTGACTGGTTGTCCCGCTTTC	Chip	2849	5.792357	8.2097464	5038
TCAGGCACCTTCCTCTTATCTG	Chip	2858	4.891077	9.5462265	1434
AGGTGGGCGCTGCTCCCGCTGG	Chip	2858	7.4741468	0	3056
CCTTCCCACCCACCC	Chip	2859.5	5.3813839	6.5249782	1370
AAAACAGCTTCCTCCAGTGGCTC	Chip	2883	4.3991041	8.6778612	6467
TCAGTGACTCCTTCTTCCTGCT	Chip	2889	24.387354	0	5787
AGGTGCTTGGCTCGTGCACACA	Chip	2892	14.372602	1.3857702	1289
GCAGGCATTAGCCCCCATGGCT	Chip	2898	5.2414117	11.64039	5129
GGTGGTTCACGCCTATAATCCC	Chip	2909.5	4.9835281	4.240087	2422
AGCCTGGGCAACAGAGCAAAAC	Chip	2910	8.8808632	0	504
GGGGCATTGTGTCTGGGTTCCT	Chip	2912	5.6041431	2.0277293	6304
GGCTTTTGTTTCAGCTCTGCTA	Chip	2914.5	4.8676863	0	5006
GGGTTGGATCCTGGTGGCTGCC	Chip	2919	7.9534206	0	7011
TGATGTGGCCCCACTTAGCTGT	Chip	2921.5	20.029945	0	3804
AAGGTTCCTCTCTCCACCCAGC	Chip	2925	4.0868788	6.821908	4726
TTTCTCCTCATGACTGGTTGTG	Chip	2943	4.1956687	3.8969367	706
CTCCAGTCTTCTCATGTATCCC	Chip	2943.5	5.1170878	6.0549593	3516
TCACCTTGTGATCCGCCCACCT	Chip	2944	5.2524996	4.4200244	5877
TGGGTAGTTTCCCCTGCCCTGC	Chip	2944.5	4.1729741	10.251331	6458
CATCTCTGGCTTGGATTATGGT	Chip	2875.5	4.1804218	9.7742558	4189
CGAGGCCTCCTCGCCGCCACCG	Chip	2917	5.8924813	0	5792
GTGGTGTTTGAGCTGCCAGGGA	Chip	2963	4.502933	8.8193016	7636
CCTGGGAGGCTGAGGCTGCAGT	Chip	2965.5	4.9182892	9.9978838	8120
TCCTTTCTCCCTCATCTT	Chip	2966	4.4738102	11.3113	5840
AACCACCATTCTCTCCTCTTCC	Chip	2979	5.3795991	1.3000224	4718

GGTTTTATCCTACCCACACAGC	Chip	2980.5	10.801926	0.75884527	573
CCACGCATCCCTCCACAGAGAG	Chip	2981	4.6559062	10.40073	5457
GGGCTAGCCTCTTCCCTGCTCC	Chip	2982	4.0539145	1.5543098	4300
AGTGGTCTTAGCTTGCTGGGCT	Chip	2958	11.094181	1.2701284	1540
CAGCCCGCCCTGAACTTTCGGG	Chip	2994	5.1533017	10.540549	5742
CCGTGGTCACCTGAGCTCCTTG	Chip	2997	11.129673	0	1964
GCCGACTGCCTTGTGAGCCT	Chip	3002	4.743588	4.5328951	6657
AGCTGGGGCTGTGGTTGTGATT	Chip	3007	5.3449593	10.225232	3548
AGTGGGCCGGACAGCCCAGGCC	Chip	3009	11.111638	0	2938
TCTGCACCCCAGCCTGAGTGA	Chip	3009.5	5.033093	10.499595	5332
CCGGCTACTCGGGAGGCTGACG	Chip	3014	4.2986312	12.683091	6445
GGCCGTCAGCCCCGATTTGCCA	Chip	3015.5	4.7711444	4.6092601	2815
TTTTCTCTTCCCTCTGGACCTG	Chip	3026	4.9174376	7.1403542	3348
GTGTTGTCGCTGGGTTTTGAGGG	Chip	3030	4.5279474	3.9595523	223
CTTTAATTGTAGCTCCCATAAT	Chip	3034.5	4.9478436	10.275362	7678
GAAAGGAGAGGGTTAAGGAGCT	Chip	3036	5.146657	0.26237148	7283
TGTGTACTTCCCCCTGACCTGT	Chip	3073	11.584995	0	3547
GGCTCTGTGTCTCCACCCAAAT	Chip	3079	5.4224949	9.948535	7310
TCCCCAGCTTGCTACTTCTGCT	Chip	3083	5.0408092	4.8841767	1879
CCCGTTGCCTTCTGGGAGTTGT	Chip	3085	4.8488579	1.4175067	7582
GCACTTTGCCCCTCCTTTGGCA	Chip	3096	5.8571658	1.1003072	6597
TTGCATCTTCTGGTTGAGCCCC	Chip	3115.5	4.8583755	5.3206172	6896
TTTGCCCTTTCTGAGCCTCATC	Chip	3116	5.2478795	0	5621
TCCATGCACATAGCCCCC	Chip	3033.5	9.5907459	4.2999502E-2	6484
GATAATCCACTCTGCTGACTTT	Chip	3054	4.3317614	6.3779197	6973
CAAGTGGAATGCTCTTCCTCCC	Chip	3123.5	4.0142264	6.7150235	5987
TGTCCTCATCCTCCAGTCTGTC	Chip	3129	5.6114564	1.2281151	5991
GGCCTGGGCTCCGGGAGTTACT	Chip	3130.5	9.2845545	0	3568
CCCATTCATCCTCGCTTCCTTC	Chip	3138	7.3333998	0	3213
GGCCTGTAATCCCAGCTACTCA	Chip	3140.5	5.8857031	12.328485	3216
ACTGTACTCCAGCCTCGGTGAC	Chip	3141	5.0527177	14.756032	6962
ATCCTCCATCTCCATCGGACTG	Chip	3145	12.66304	0	5497
TCCCCAAGCAGGCAATCTCCCG	Chip	3149	4.4257097	6.5767608	1310
TAGGAGGATTGCTTGTGGCCAG	Chip	3154.5	4.6519237	4.9273152	351
CACCACTTTCTCCTTCTCCTTGG	Chip	3132	5.2580366	8.4857149	5311
GGCCTGTGGTGCGCTATTTCAG	Chip	3159	4.7927871	10.763789	4423
TATGTCACTCGGCTCGGCCCAC	Chip	3182.5	4.1082759	11.183109	3307
TGATTTCAAGCCAGGGGGCGTT	Chip	3186	4.1073384	9.1334038	472
CACCTTGGCCTTGCTATTTCTC	Chip	3186	12.872056	0	1713
ACTGTACTCCAGCCTTGGCGAC	Chip	3187	4.4324884	14.526779	3509
GGCCTGGCAGAGCGCGCGGCTG	Chip	3187	5.3775048	0.47298598	5434
AATTTCGGTTCAAGGCCCAGTT	Chip	3187	9.0648565	0	461
CTGGTTATCTCGGCCACAGAGA	Chip	3187.5	12.082075	0	634
CATCGCCCTGGGGTCCTGCCTT	Chip	3189	5.6406593	7.8016257	1335
CTCTGGACCCTCCTGCTGAGAG	Chip	3192	5.8815751	12.393508	4016
CCCAGGCCCTGGCAGAGCTTGT	Chip	3205	4.2292862	11.181579	7968
CAGCTGTTCATTGTTGCCACCC	Chip	3205.5	7.6901884	0	2792
GTCCCCGACGTTTGGCTTGATG	Chip	3207	4.4545999	5.6476693	7250
AGCGACACCGCCTGCAGGCCAT	Chip	3210	20.239182	1.8362232	4601
CCAGAAAAATCCTCCCTTGTCC	Chip	3211.5	5.2451043	8.3984203	7788

TCTCTTTCTGGAAGCTTCCCT	Chip	3219	6.8929572	1.1474941	4446
TATTTGTCTGGTCTAAGGAGGG	Chip	3219.5	4.6818242	11.217502	3297
GGGTAAATCTCTTTTCATGGCT	Chip	3221	4.827455	8.7138081	6777
ATCCTCCAGCTCCTGCTTCTGC	Chip	3174	4.2183352	2.8458629	5818
GAACTTGGCCTGTCTGTCTGGC	Chip	3174	11.941829	0	4608
TCGCGGGTTGCACATGGCCATC	Chip	3200	5.0210557	12.488149	6528
CAGCCTGGTCCCCGGCTCACCC	Chip	3234	4.2474666	6.4346752	3021
GCCCTCCTGGCAGGCAGTGATG	Chip	3239.5	4.6479778	8.1225739	8084
CGCCCCCAGGGCCTCGAGCATG	Chip	3255	4.2474666	5.3765326	1696
ACTTCCCACCCCTCCAG	Chip	3259.5	4.1611338	12.380153	2536
GTCTGTTTTCTCTTCTGTGGGA	Chip	3260	4.4957891	12.91537	3583
CCTCAGACCCCTGCTGAGCTTC	Chip	3264	5.0253716	2.4009373	1027
GAGGCCTGGGCAAGGGGGTCTG	Chip	3266	5.8565254	9.1992407	7785
CTGGCCTGGCGCAGTGGCTCAC	Chip	3273.5	6.038754	0	2931
AGCTACCTGATCCTTCTTCTGA	Chip	3226	4.1367669	12.153009	2463
GCTGGCTGACAGATTTGGGGTG	Chip	3232	9.7306767	0	4258
CGTGCGCCTCAGCCTCGTGCGC	Chip	3284	4.5142207	12.660418	4492
TGCGCCATGTGCTCTCGGCCCT	Chip	3290	5.4790416	8.9091539	4306
GTCTCGTCAATGGCAGGTTCCC	Chip	3293	7.1220169	0.86746806	3529
AGTTGGCACTGAGCTGTGATTG	Chip	3303	5.8162518	0	1297
CCTGGCTCCTACGGGTATTTTG	Chip	3308	4.5325184	0.97975397	2823
CTGTAACTGTCCCTTTTGCC	Chip	3318	4.9795561	11.643893	7169
GCGTCCGGCCTCTCTCGCTCCCG	Chip	3319	5.4790416	5.205163	3184
TAGCCCCTGCCTTTGAACCTGG	Chip	3340	5.771091	7.2742958	6254
GAGGCCACTGTCCCTGCCTTCC	Chip	3343.5	4.653738	9.7698135	651
GCCTGTGTCTGGGTGGCCAGAG	Chip	3356	10.371323	1.1448419	2135
CTCTGGAGTGTCTGGCCAGGGT	Chip	3361.5	4.2338123	13.302693	4324
CTGTCCTGCCAGTCCTGGACTC	Chip	3377	5.8142152	7.2265315	2025
CCAGCCCGAATCCCTGGCCAGG	Chip	3382	13.906728	1.8086184	2377
TCCTCCCCAAAGCCCAGCCTGG	Chip	3388	4.4911599	5.001718	8130
TATCTCCTGTCAGGGTGGTGGT	Chip	3391	4.372324	7.0112314	4868
CCGGAGTGTCTGGCCTGCTGGG	Chip	3411	4.093287	9.0740547	2286
TGGAGGCGAGAGCGCGCGGGCT	Chip	3411	4.1435757	0.4630875	6290
CTCCCGGCTGCTCCGGCTCCCG	Chip	3404.5	4.0221744	10.150807	6688
GGCCTACGCCAGTATCCCCAGG	Chip	3426	5.7392426	7.2661905	6501
TCTGCCCCAGCCGCACTG	Chip	3479	5.2319188	7.0148258	4658
GGCCGGGGCCTGCTCGCCTGTG	Chip	3488	15.259133	0	7115
ACCTGAGCTCCACCTCCTGCC	Chip	3490.5	5.5675011	2.1058514	3555
AGTTGTTCGTGGTGGATTCGCT	Chip	3494	4.0696526	11.844742	1454
CATTAGGACGCCCCGCCCATAC	Chip	3517	4.7521834	7.6331592	2421
ACCTCCTGGCGGGCATCCTC	Chip	3524	4.3451629	9.1596689	3726
AAATGCAACGGGCTTTCCTTAT	Chip	3531	4.3887382	1.0790982	4387
TCCTTCACTCCCTCTGCATCCA	Chip	3533.5	5.2938275	8.4558067	4029
GTGTGTCTCCCAAGAAGGCCCA	Chip	3536	4.6024246	8.0168934	5835
TCTTTGCTATTGTGAGTAGTGC	Chip	3427	17.426813	0	3473
ATCTGGCTCCCTTGGAATCCGT	Chip	3434	4.1733551	9.8152704	7284
GGGCCACCCCACTGCCCACGCT	Chip	3459	4.6319594	4.3550696	1045
AGACAGGGTGATCGCTTGAGCC	Chip	3466	4.6497626	7.744925	6097
TGTCCTTCTTGTCTTGCCCAAA	Chip	3592.5	5.1910453	1.0036907	3898
TTTACCTTTGTGGGTCTCCCTC	Chip	3593	4.5381126	8.0754824	4192

GGTCTTTTCTGCTGCAGGTTGT	Chip	3605	4.629807	6.2433772	2148
TCCCGTAGGTTGCTGTAGTCGG	Chip	3606	5.655231	9.4085045	1573
GCTTTATCCGCTTGACCCTTAC	Chip	3616	4.4118524	13.271925	7725
GGTGAATTTGCCTCCCGACTGA	Chip	3632.5	5.797946	13.529587	3677
GACCCTCTAGATGGAAGCACTG	Chip	3638	4.4202566	13.507792	7870
GTCCACTTCTGCCTTTCTGGAT	Chip	3648.5	4.579267	11.366967	5768
ACATCCTCCCGATCTACTGGCT	Chip	3651	8.4286737	1.3539879	1143
CCTTCTCAGCCCCAGCTCCCGC	Chip	3674	6.5766706	0.30380982	4589
TTCTTTTCTGAGCCTTG	Chip	3674.5	5.9793639	0	7439
CTTCCCCAGGCTGGTCTGTAT	Chip	3686	8.8317556	0	4502
GACCATCCTGGCCAACGTGGTA	Chip	3690	4.9752827	15.844102	6829
TCTTCCTGTCAATGAGAATTAA	Chip	3699	5.0892124	3.8346827	5062
GTCCTTCCACATGGCCAACTTC	Chip	3716	4.1157985	8.4863319	5355
TGGGGGACACCAGTCTCTCTCT	Chip	3739	10.531529	0	857
TGGTCTTTGTCCCTCCTTGATC	Chip	3743	4.6968236	2.9960811	6915
CCTGCCTACTGAGTTTTATATT	Chip	3745	12.760594	4.7314309E-2	4869
GCATGGCTTCGGGGTGCTGCCT	Chip	3747	5.1863647	12.211168	6780
CCTCTGTGTCTCCAAGAGGCCT	Chip	3752	9.7851496	0.61701149	1989
ACGGTGCAGCCTGTCCCTTCTC	Chip	3755	9.4693241	0	2642
CTGGCCTCGGCAGCAGGAACAG	Chip	3757	4.0009317	4.5684352	3426
ATGAGCACACTGATAAGCCCCT	Chip	3757	15.382463	0	1559
CGGGGTTCATCCATGCTGTGGC	Chip	3762	4.0037775	5.9347458	2747
AAGTCTCTCACATATCTGGTCC	Chip	3668	4.6719613	6.1481905	2273
TCCCTGTGTCCTGGGGGCACCT	Chip	3722	5.5684233	0.76068252	1608
GGGTTCAGTCCCTCTTGCTACT	Chip	3765.5	4.6101117	4.239377	4801
TTCCAGTTCTGGGCTGGCTGCT	Chip	3769.5	4.0091105	3.8919213	7920
GCCTGCTCCCAGTTGGCGCCTC	Chip	3775	10.338549	0	3941
AGGCTCCCTGAATCGCCCGTTC	Chip	3782.5	10.510651	0	6739
GATATCATTGAGCCCAGGAGTT	Chip	3794	5.4940314	13.768772	4179
ATCTCCTGGTCCACCCGGGCGG	Chip	3796	4.0230289	5.5431991	7256
GCTGCTCTCCAAGCCTCCTTGA	Chip	3797.5	5.4047599	5.8530407	4369
CTGAGATAGGACTCTGCTGGCT	Chip	3797.5	11.873036	0	7046
AGCAGCAGTATCCTTCCCCGGC	Chip	3825	4.4749479	9.2136803	4885
GCCATCCTGATGACAGGCCACT	Chip	3787	18.20257	0	2225
CAAATCCCTGCTCTGTGCTG	Chip	3854	4.0554743	15.468264	1635
TCTGCACCATCGTATGCTTAAT	Chip	3861	4.0593572	6.2677927	446
TCACCCCTCCATTCTCTCATGT	Chip	3872	5.0523677	5.8481488	1641
GCCTGTATTCCCAGCACTTTGG	Chip	3873	7.0698829	0	4334
TATGCCACTGCTCTCCATCCTA	Chip	3874.5	14.223907	1.1388568	1853
ACCAGGTTGGTGTCCTTCTGGC	Chip	3867	4.9248667	11.592688	2157
GGGGGGCGCCATGGTCTCTTGG	Chip	3867.5	5.3418927	0	3950
CTCCTGAATTGTCCCTCACAGC	Chip	3894	7.9632921	0	7500
GCAGCTATTGTCTCCTGGGCCC	Chip	3900	4.0808616	12.07268	2303
GCGCCCCATCTACAGTACTTTT	Chip	3901	7.4468746	1.8634913	5194
AGATTTGGTGTCTGGTTGATAT	Chip	3906	5.6260681	15.079812	1730
ACTGTACTCCAGCCTGGGGGAC	Chip	3910	5.224843	16.213413	1355
CTGGCCACTGCACCTCTTCCT	Chip	3912	5.3084121	3.5621116	4873
GTCCCCTGTCCAGGGCCAGCCA	Chip	3915.5	14.246669	0	1569
TGGGTGACAGAGCAAGACTCTG	Chip	3917.5	4.9988604	13.126308	2656
GGCCCTGGTCCTAGGGGTGGAA	Chip	3918	29.682575	0	5938

GCCCACGGCCCTGCTCTGC	Chip	3930	15.931521	0.13763157	1367
GCTTGGCTTTACTAGGGGGACA	Chip	3943.5	4.974093	8.3365431	6132
GCACCGCCTTGGACCGCCCGCT	Chip	3964	4.1457386	10.605991	5467
CCCTGGCTGCGTGATGGATGAA	Chip	3966	4.1167688	10.868774	1605
TTCCTGGTCTATTTAGAATTGC	Chip	3974	4.2977972	7.7437348	5885
TCTGTGTCTCCACCCAAATCTCA	Chip	3991.5	9.2170362	0	7276
CCTGTGCTTGGCCAGAGAGGTT	Chip	3994	4.3371038	14.052099	7232
CGGTGGGTGCTTCAGGCGGTGG	Chip	3999	5.0099111	5.715847	323
TCTCAACAGTGCAAGCTGCTCC	Chip	4000	46.689823	0	4078
GGTCGCTGTGTAGGTTCAGCTA	Chip	3938.5	5.7133183	2.4790351	5080
TCTAGCTCTGCTTATCATGGCT	Chip	4019.5	17.300783	1.1704206	5341
CCCAGCAGTAGAGCTCATATGG	Chip	4022	30.281006	0	4712
GGGTCGCTGCCGCTGCTGGACC	Chip	4024	4.6667271	8.2883673	6043
GTGACTGTGGGTTTCTGGTTCC	Chip	4025.5	5.8571658	7.4026732	220
AGCGGGGTGTTTTGGGTGGCCT	Chip	4033.5	10.082271	0.52406603	6110
TGGTCCCCATCCTTGCGATT	Chip	4035.5	4.9446163	6.7577944	860
GGCTGACTTTTATGCACACTAA	Chip	4041	4.1568542	15.429013	785
GGTCTGTCTTCCCAATCGTGGC	Chip	4046.5	4.2799697	6.4598308	3953
GCCGTCCACCTCGATGGCCACT	Chip	4073	13.174488	0	3814
GCTGCTGGGCCATTTGTTGG	Chip	4101	7.7621112	1.3319389	210
ACATGATTGTCTGGCTTGGCCA	Chip	4115	10.389771	0	5748
TGGCTGTACATTGGAATTATCT	Chip	4116	4.8355722	0.55707508	4491
CCCTGCATCCAAAGGCCTCCTC	Chip	4119.5	16.061049	0	5763
TCCCCCACTGTTTCTGCTAC	Chip	4143.5	5.7292447	1.3394566	5286
TTGTTCTTGTCTTTGCCTTCAC	Chip	4146	5.8114853	5.746397	2352
CACCATGCCTGGCTAATTTTTT	Chip	4149	5.579587	14.67128	7848
TCTTCACGCCAAGTGCCCCTCA	Chip	4150	25.789295	0	6331
TCAGGTGCCTTGGCTAATTGTT	Chip	4158	4.3205009	12.139079	5543
GTCTCCCCAGGGCCCTCTTCAT	Chip	4158	6.3563652	1.3304862	612
AAATGTGGGGCTGGAGGCAGGA	Chip	4164	4.2210102	16.645317	5915
CTGTCCGCCGACTTGGCCAGGC	Chip	4178	4.2281923	12.589372	7787
TTTCTTCCTGCTTTGTCCCATG	Chip	4054	5.4825935	11.238956	6925
CCTTCCCATGCAGCCTGTCTGA	Chip	4066	5.3572183	6.7426419	5204
TCCTGGCTTGTCACATCTACGT	Chip	4198	4.4526401	3.8407443	1933
CAGTGCCCGCCGCCGTTCCTGG	Chip	4235	4.8511839	14.764318	492
ACTCTGGCCATCTTGGACCTTG	Chip	4235	5.8999434	14.697995	6715
CTTTTCCCCTTTGGACTC	Chip	4238.5	5.1553736	7.0349116	1263
TGGTTGTGCACGGGTTGGT	Chip	4287	5.809895	12.026738	3732
ATCTTGCCAGTCTCCAAATCAA	Chip	4293	4.7687039	16.254972	7548
GTTACTCCTGGTTGAGCTTGGT	Chip	4309.5	4.4103327	15.300289	6691
TTGCTGACCTTTGCTCTCCGTT	Chip	4311	5.1390486	6.5618801	1783
TGAGTCAGCCTTGGCAGCCCCT	Chip	4321	10.234882	0	2705
CTCTGCAAGTCCAGCCCCTGGC	Chip	4339	8.3685989	0	1681
CAGAGCTGGTGTGTCCTGGCAT	Chip	4347	8.8573503	0.72330654	3372
CATTCTAGGCCTGGCTTGGGCC	Chip	4350	4.7693954	0	490
CTCCTCCACCCGCTGGGGCCCA	Chip	4352	8.1910143	0	1458
ATGGGCTGTCCATTGCTGGCTG	Chip	4362	18.782331	0	3864
CTTTGGAACACCCAGCTCTGTG	Chip	4367	4.3228598	8.8246651	2644
GTGGCCAACCTGGCCCTGAACT	Chip	4379	20.084518	0	3296
AGCCCCAAACACCAGGATTACT	Chip	4319	8.0879526	1.9557818	6320

TTCCCTTAAATTATGGCATCTA	Chip	4395	10.634765	0	7450
GCAGGCTCTGGCTTATTCTGGG	Chip	4399	4.4706116	13.904231	202
TGTCCGTGGCCTTCTGGAT	Chip	4401	5.2269702	12.950581	7068
AAAGTGCTTCCTTTTTGAGGGT	Chip	4403.5	4.8706794	7.6543956	2362
CGGTCTCCCGTGTGTGTGCGCT	Chip	4407	5.3256574	16.37768	6107
CTCAGCTTGGCCTGGACGTAGC	Chip	4410	4.8741584	14.490013	2833
CGTGACTGGGTCCGTCTGGCT	Chip	4430	5.1234531	8.6597939	7929
GTGACACCCGCATGCCACTGTG	Chip	4433	5.2274818	8.4032717	6151
CACTAGTAGTCTCTGGC	Chip	4435	21.477705	0	828
AATGGTCTTCCTCCACCCCTCTG	Chip	4451	4.8959856	5.1994057	1090
TCCTCCAGTTCCTTGGTTTCAG	Chip	4451.5	4.9735894	5.2467165	5446
AGCGCCGCCCCTGCTGGTGTTG	Chip	4465	4.3703461	6.2275581	5622
TGCAATCCAGCCTGGGCGACA	Chip	4499	4.9212852	16.91279	3398
CACTGCAGCCTCAAATTCCTGG	Chip	4509	5.5284224	3.5514677	2983
GCCTCCAGCCCACGCAGGCCTG	Chip	4519.5	13.672773	0	6694
TGCCGTGGGGCTGAGGCTGGAG	Chip	4521	4.5795527	15.352057	3404
TGCCTCCCTGGCAAGTCTCTCC	Chip	4529	4.4007978	9.8346052	5739
AAGCCCTGGACGGCCCTTCCCC	Chip	4492	18.769596	0	7865
CCACAGTCCTGGCTTCTGTCTG	Chip	4568	4.546155	15.062599	5367
TGGATGGCTGTGGTCTTTGCCC	Chip	4573	12.492056	0	613
CCTGCCCTGCTCACTGTCGGTA	Chip	4583	6.1791143	0.75725234	5928
GTCTGCTCGCTGCTCAGCCCTG	Chip	4613	10.761443	1.5521971	7195
CCGGGGTAGGCCCTGAGGCAGC	Chip	4622.5	15.192184	0	2894
CCTTCCCACATTCCTTACATGC	Chip	4637	9.2534456	1.1731225	1390
TTTCTTGGGGCTCCTGCGCCAT	Chip	4657.5	4.4606614	10.529262	4838
ACTGTACTCCAGCCTGGGAAAC	Chip	4692	5.6260824	17.568949	1466
TTCTCCCTGTCCTATCAAGACT	Chip	4699	4.7479568	12.121504	7455
CCCAGGAGGCCTGCCTGGCCGG	Chip	4711	5.0298901	9.8042231	2621
GTCTCCGGCCGCCCTGGTGCTG	Chip	4732	5.5700078	0	1147
CTGCTCTGCTGATCAGTGTCTC	Chip	4736	4.4964242	11.948936	7825
AGTCCTGGCCTGGGGGACC	Chip	4747	5.1204491	11.736219	2749
GGCGGGCAGCGTCTTGCTGGCC	Chip	4755	39.514385	0	2027
TGTCTGATCATGAGGCAGGGCT	Chip	4775.5	5.2094531	0	5714
GGGTTGGCATCAGGGTTCTGTG	Chip	4777	4.5148683	8.4523115	3203
TGAGGCCCACCTTGGCCCCGGC	Chip	4794	5.7001333	14.264636	3313
ACTGCAGTCTTGATCTCCTGGGC	Chip	4871	4.8553619	1.9227443	6405
AGAAAGTGCTTCCCTTTGGTGA	Chip	4890.5	5.1180902	15.543441	6034
TTTCCCAGCCTCAGCTCAGCAG	Chip	4894.5	9.402298	0	5973
ACCCATGGTCTGGTGGGGCCCT	Chip	4897	5.121223	1.2881944	3042
CTGCAGTCTACCTGGATTTTTA	Chip	4922	4.5788498	17.83988	6870
AGCCCTCGTTTCTGCATCCTGT	Chip	4923	15.10443	0.58649576	2329
GGGAACAGCTTGGGCTCTGCCA	Chip	4814	4.5313773	3.7230809	1413
CGGGGCCCTGGGGCTGAAGGTC	Chip	4941	5.1423211	2.6783533	6642
TTTGGCTTCTCCTACCACCTCT	Chip	4981	5.5610046	7.3423386	5524
TAACCTCTCTGTGCCTCAGTTT	Chip	4997.5	5.1691394	10.657457	3012
GAAGAGTGGTTATCCCTGCTGT	Chip	5008	5.0230203	10.335828	3106
ACCCGCCGCACGTCCAGGCTGA	Chip	5018	13.648748	0	659
CTCTGCCTGTCTCATCCTGCAA	Chip	5028	4.7158685	0.84503251	1531
GCGGGCGGCTTCATCTTGCCCT	Chip	5038	5.1213508	7.6892729	336
GCCTGGCCGGGTCTTGGATTTT	Chip	5031.5	5.5863533	7.3384004	3161

GTCTCCCAAACTCTGATGGTCC	Chip	5069	7.1779604	0	4590
CTCTGCTGTGCCGCCAGGGCCT	Chip	5084	6.4544711	0.20225658	3397
CCCAGGTTGGCCTACAGA	Chip	5095.5	4.6688876	17.382532	5559
TCCCGCCCTTGTACTTGCCGAG	Chip	5151.5	5.9488397	7.757297	450
GTGGGGTCTGTCCTCTTCTGGG	Chip	5161.5	5.2452993	5.3853817	7916
CTGTCCTGTGCTTTTTACTGTC	Chip	5185	5.3258371	1.2787153	4865
GCCCCCGAGGAGGTGATGTCGC	Chip	5201	21.709009	0	1753
GGATGGACGTGATGCCTTAGCCA	Chip	5225	25.011427	0	3501
GCCGCCGCTGTGCAATTTAGCA	Chip	5108	5.1844678	11.698804	8065
TCCCCTGGTGCCACGATCTGCT	Chip	5256	16.61911	0	2287
GGAAAGGCCTGGGTGTCCTGGG	Chip	5274	10.099924	0	6953
TCCCAGCTCCTGGGCCCCACAG	Chip	5372.5	4.9255114	7.1915674	25
GCGTGGCCTGGGATCCCAAG	Chip	5321.5	10.117671	0	3121
CGTGCTGGGTCTGCGGGGCCGT	Chip	5352	21.585838	0	3647
TCTTCTATCCTCAGCCCCTGCC	Chip	5352.5	15.644877	1.239718	2336
CCTTTTGTCCTGCTTGGTTTCG	Chip	5359.5	5.4283695	7.2327213	7016
ATCTTTTATCACTCCCACTGCT	Chip	5396	5.4679914	11.567021	59
GATGGGTTTGTTGGAGAGGTC	Chip	5425.5	4.8749881	17.533426	330
ATGCCCCTGGCCTGGGGAACAT	Chip	5475	5.3843775	17.659876	4459
AGTCCCCCTCTGAGCCCAGGGA	Chip	5483	8.0453825	0	4513
CCCTCACTCCTGCCGGG	Chip	5527	7.7637706	0	914
GAATGTGTACTGAGTGCCCCTT	Chip	5542	24.339638	0	3342
GGCCGCCGCCTTGTGCTCTGC	Chip	5552	20.588572	0	7524
CTGGTCTGCCACCCACACCCCT	Chip	5580	9.7578878	0	6416
CCCTGGCTGGCTCTGCCCGGAC	Chip	5439.5	4.9906063	0.71976095	3658
CACTCCAGATCACACCCCTTGG	Chip	5444	5.8463011	2.7913775	2012
GGAGTGCAATGGCTTGATCTTG	Chip	5693	9.2170362	1.033795	1248
CCTCATCGTTTCCAGAATGTGG	Chip	5732	14.757196	0	2111
CCACCCGTCCTGCTCGGGCCGC	Chip	5736	5.8928256	9.3927116	1820
TGGCCTTGGCCGTGCTGGGGTC	Chip	5712	5.5597429	0	7768
GCTCTGCCAGCCCAAGGCGCAG	Chip	5831.5	4.9416537	10.837112	908
GTCCCCGCCGTCGCTCAGGCTG	Chip	5861	6.1413345	1.3164479	6557
TGGTCTGTCCCACTCTGCCCTT	Chip	5877	5.1300492	7.3202324	3011
GCTTGGCCCATTGATCAGCTGG	Chip	5906.5	13.048002	0	7735
GCCAAATAAGTGTCCGGCCCTC	Chip	5930	10.734369	3.6227588E-2	383
GTGACCTGGCCGCCTAAACCCA	Chip	5941.5	5.6531525	18.527802	219
AGTGCCTTCAGATTTGCCCCAG	Chip	5977	12.457526	0.54957581	4700
AGCCCTCTTCCAGCCAGCACAG	Chip	6035	11.725875	0.3822628	5834
CGGCATGGGCGTCCCCCTCACT	Chip	6042	5.6168065	9.6102333	3493
CACTGCACTGCAGCCTGGAGAC	Chip	6050	5.6199274	17.140821	1125
TTCCATTTGGAGCTCGCAGCCT	Chip	5965	4.9900851	14.792343	4722
ACTGTAACCTCAAACTCCTGGG	Chip	6067.5	5.62674	11.00416	3293
TGGCTCTGTCCTCAGCT	Chip	6081	5.0312958	9.2481689	1873
AAAGCGCTTCCCTTTGGAGCGT	Chip	6099	5.6389537	17.599831	708
GCCTCATCGCTGCTCGGCCCGG	Chip	6124	5.0463729	9.853282	1947
CCGAGGTCCTGGACTTGGCCCT	Chip	6198	17.494062	0	7162
ACCACCCAGCCAGCTTCTCCCT	Chip	6121	10.716282	0	6366
CATCCCTGTCGTCAAGTCTCTG	Chip	6284	5.5781989	0	4263
AAGACACCAGAGACTGGCCTCA	Chip	6306	5.8909965	5.1631103	142
TTGTGGAACTCATCTGCCTGGT	Chip	6341.5	5.7602396	6.9522476	2681

TTCCAAAGGCTGCACCTTGCCC	Chip	6400	19.06905	0	4207
TCCTCAGCTTGGCCACGGAGTT	Chip	6478.5	5.8972673	17.989834	359
GTCCACAGCTCTGAGGTCTCCC	Chip	6493	5.3572183	1.3877324	3277
ACAACTCCTTCTTGGGTCCTGG	Chip	6494	5.7869687	2.3521452	2264
TTCCTGGTCACTGCTGTTCCCT	Chip	6518.5	5.1799512	10.527549	8079
TTCCTGCGCCCTTCTCGCCCGC	Chip	6532	19.192228	0	939
AACATAGCCAGAATGTCTCCTG	Chip	6354	5.3396487	9.7120275	6168
GGCTGGGCCTCTCCCTCAGCTG	Chip	6453	5.1583419	16.296978	3347
GCCCTTGGCCTCTTTGGCCCGG	Chip	6460	7.9045153	0	3524
TATCGAGCTGGACGGGCTGGTC	Chip	6607	5.2088056	6.9531446	1239
ACTGTACTCCAACCTGGGCAAC	Chip	6841	5.909749	20.226805	7945
TGGTGCTTGTGGAGCTGGTGCT	Chip	6931	50.206551	0	7017
CACTGCACCCTCAAACTCCTGG	Chip	6945.5	9.7742167	1.1890075	4962
TCTGGCTTCCCTCTGTTCTGGG	Chip	6739	9.2949047	0.96471214	1186
TGAGGCGTCTCCCTGAGCTCAC	Chip	6785	5.4904022	19.207653	4485
TGTCTCCCCACTGGTCTTCCAG	Chip	7039	5.6089306	15.167439	135
AACCCGTGATCCTGACTCCCCT	Chip	7080	5.843668	7.8386455	3924
TCCTGGTCTTCAGGTTGCAAAA	Chip	7121	5.3691082	9.0031843	5680
GCCTCATTTCCACCTCCCC	Chip	7161.5	21.520433	0.16928124	570
CAGGGATGGCGCTGGCTGCCCG	Chip	7317	5.4272056	19.166769	7605
CCTGGCTCTGCCACTTACTGCC	Chip	7371	5.4429383	8.8807936	8026
GGCTGGACGATCTCCCCTTCCT	Chip	7418	5.5213137	0.60796887	2578
AAACTGCTTCCTTGGCCT	Chip	7436	5.6282043	5.6413546	42
TAGCAGTGTCTAGGTAGGCCAT	Chip	7447	28.000751	1.1526781	3519
GTCTCCCAGCCTACATCTTTCT	Chip	7497	9.493165	0	888
CACTGCAAGCAAGCTCCGCCTC	Chip	7633	15.721508	0.38197863	3124
TGTGGCTCAGGCGGCTTCTCCT	Chip	7641	5.5752053	5.2592807	1607
AGCAACTCTCACCTGGCTGC	Chip	7806.5	5.9086308	13.562915	7401
CCTGCCTCCCCATCAGTTATACA	Chip	7820.5	15.964743	1.1131122	741
TTCAAAGGGAAAAGCAGGCTGG	Chip	7722	5.5424767	6.6963782	3559
AGGTCTCTTGCTGTCTCTGGGC	Chip	8026.5	6.4343252	0.43719938	3380
GCCGCGGCACTGGCCTGGCTCC	Chip	8063	6.6011534	1.8802395	6018
TCATTCCCTCATTGTTCACTGG	Chip	8088	8.6392965	1.1877192	7459
TGGCTTTCTCACAGACCACCTC	Chip	8109.5	17.646196	0	1795
GGCCCCCGGAACGCTCTGTGACC	Chip	8124	21.336803	0	6563
TCCAAATGAGCTCTGCCTTCCA	Chip	8231	5.6790619	11.278896	2363
CTCACCTCCAGGAGCTGCTGGC	Chip	8262.5	29.81432	0	7950
GCCTCCTGGGGTGCCATCATCT	Chip	8207	15.521686	1.0917441	1587

ROW#	DISEASE NAME	SEQ ID NOs OF GAMS ASSOCIATED WITH DISEASE
2	Multiple Sclerosis	2, 5, 8, 10, 11, 13, 18, 21, 22, 25, 30, 31, 33, 34, 35, 36, 37, 38, 39, 43, 44, 46, 49, 50, 51, 52, 54, 55, 57, 59, 62, 64, 65, 67, 68, 69, 71, 73, 74, 78, 80, 81, 82, 93, 97, 99, 101, 102, 103, 106, 107, 108, 112, 118, 119, 120, 121, 122, 125, 126, 127, 128, 133, 138, 139, 140, 143, 144, 146, 147, 148, 149, 150, 151, 154, 155, 157, 164, 166, 171, 173, 175, 177, 179, 182, 183, 193, 195, 196, 197, 198, 202, 203, 204, 206, 209, 210, 212, 213, 214, 218, 222, 228, 229, 231, 232, 237, 239, 241, 242, 244, 248, 249, 251, 259, 260, 262, 264, 268, 271, 272, 279, 283, 284, 290, 291, 293, 296, 297, 299, 301, 305, 306, 308, 309, 311, 326, 328, 330, 334, 335, 337, 339, 340, 343, 345, 352, 353, 359, 360, 361, 362, 363, 367, 370, 371, 375, 380 and 9227360-9284478.
3	Alzheimer	2, 4, 5, 7, 9, 10, 12, 13, 14, 15, 17, 18, 19, 21, 22, 23, 24, 25, 26, 31, 32, 33, 34, 35, 36, 37, 38, 39, 41, 44, 45, 46, 49, 50, 51, 52, 54, 55, 59, 60, 61, 62, 64, 65, 66, 67, 68, 69, 71, 72, 73, 74, 77, 80, 81, 82, 84, 86, 88, 92, 93, 94, 97, 98, 99, 100, 102, 104, 105, 106, 108, 109, 112, 115, 117, 118, 119, 120, 121, 123, 124, 125, 126, 130, 133, 135, 136, 137, 138, 140, 141, 144, 146, 147, 148, 149, 150, 151, 152, 154, 155, 156, 157, 158, 160, 162, 163, 166, 168, 169, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 193, 194, 195, 196, 198, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 216, 218, 221, 227, 228, 229, 230, 231, 232, 234, 235, 237, 239, 240, 241, 242, 243, 244, 245, 246, 248, 249, 251, 252, 254, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 270, 271, 272, 273, 274, 277, 279, 281, 283, 284, 285, 286, 288, 290, 291, 292, 293, 294, 296, 297, 298, 299, 301, 304, 305, 306, 307, 308, 309, 311, 314, 316, 317, 318, 319, 321, 322, 323, 325, 326, 327, 330, 334, 335, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 350, 351, 352, 353, 354, 355, 359, 360, 361, 362, 363, 364, 365, 367, 368, 370, 371, 372, 374, 375, 377, 379, 380 and 7079539-7236526.
4	Prostate cancer	2, 3, 4, 5, 10, 13, 14, 16, 18, 19, 21, 22, 23, 24, 26, 27, 30, 32, 33, 34, 35, 38, 39, 41, 42, 44, 45, 46, 50, 52, 53, 54, 56, 57, 59, 60, 62, 64, 65, 66, 67, 68, 69, 71, 73, 74, 77, 78, 80, 82, 84, 88, 93, 94, 97, 99, 102, 103, 104, 105, 106, 108, 109, 111, 112, 114, 115, 116, 118, 119, 120, 121, 123, 125, 126, 128, 130, 133, 135, 136, 137, 139, 142, 143, 144, 146, 147, 148, 149, 150, 151, 152, 154, 155, 156, 159, 161, 165, 166, 168, 170, 171, 172, 173, 175, 177, 179, 180, 181, 183, 184, 185, 192, 194, 195, 196, 199, 201, 202, 203, 204, 207, 210, 212, 213, 214, 217, 218, 219, 220, 221, 228, 229, 230, 232, 234, 235, 237, 238, 240, 241, 243, 244, 246, 248, 249, 251, 252, 253, 255, 257, 258, 259, 260, 261, 262, 264, 266, 268, 269, 270, 271, 272, 273, 274, 278, 281, 283, 284, 285, 287, 288, 290, 293, 295, 296, 297, 299, 300, 301, 305, 306, 309, 311, 312, 314, 315, 316, 318, 319, 324, 326, 329, 334, 335, 337, 338, 339, 340, 343, 344, 345, 346, 348, 349, 351, 352, 353, 354, 355, 359, 360, 361, 362, 363, 365, 369, 370, 371, 372, 375, 376, 377, 379, 380 and 9650118-9780695.
5	Respiratory Syncytial Virus	5, 33, 54, 69, 71, 99, 125, 150, 166, 175, 177, 179, 185, 195, 268, 283, 290, 299, 319, 362, 363 and 9841618-9846172.
6	Inflammatory Bowel Diseases	4, 24, 25, 39, 54, 69, 98, 99, 108, 133, 147, 166, 174, 213, 215, 223, 228, 248, 270, 283, 308, 326, 327, 339, 369, 370 and 8640213-8643616.
7	Chronic obstructive pulmonary disease	68, 78, 105, 106, 149, 201, 230, 343, 371 and 7791250-7793042.
8	Myasthenia Gravis	38, 54, 69, 77, 80, 112, 133, 144, 155, 166, 183, 228, 237, 262, 271, 326, 335,

369, 378 and 9284479-9285935.

9 Nephrogenic diabetes insipidus 3, 47, 53, 54, 65, 67, 126, 147, 149, 179, 195, 245, 299 and 9324696-9325456.

10 Carcinoid 54, 59, 68, 108, 166, 214, 218, 224, 248, 251, 265, 268, 271, 306, 339, 380 and 7743214-7747064.

11 Esophageal cancer 3, 4, 5, 10, 16, 18, 21, 22, 23, 24, 27, 33, 38, 41, 47, 54, 58, 59, 62, 63, 64, 65, 67, 68, 69, 70, 73, 80, 84, 93, 94, 99, 100, 102, 106, 107, 108, 112, 116, 118, 119, 120, 121, 122, 125, 126, 128, 130, 135, 136, 138, 147, 149, 150, 155, 160, 166, 171, 172, 173, 174, 179, 182, 183, 194, 195, 203, 207, 214, 217, 218, 225, 226, 229, 230, 232, 234, 238, 239, 241, 242, 248, 254, 255, 261, 262, 264, 266, 268, 271, 280, 284, 285, 290, 291, 293, 299, 304, 305, 309, 311, 312, 318, 319, 321, 326, 335, 338, 339, 340, 343, 344, 345, 352, 353, 356, 359, 361, 362, 363, 369, 370, 375, 377 and 8358228-8395973.

12 Polyposis 9, 12, 13, 23, 35, 42, 48, 73, 76, 81, 94, 106, 169, 175, 177, 193, 194, 223, 234, 237, 241, 259, 268, 285, 317, 319, 363, 371, 377 and 9635012-9640471.

13 Allergic contact der matitis 5, 44, 205, 228, 299, 339, 365 and 7076523-7077157.

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15 Otitis Media 54, 68, 78, 105, 106, 149, 201, 371 and 9563467-9564362.

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